



# Department of Veterans Affairs

JESSE BROWN VETERANS AFFAIRS MEDICAL CENTER  
CHICAGO, ILLINOIS

## ELECTRICAL SERVICE RELOCATION FOR BUILDING #5 CO "A" HVAC & ADA TOILETS

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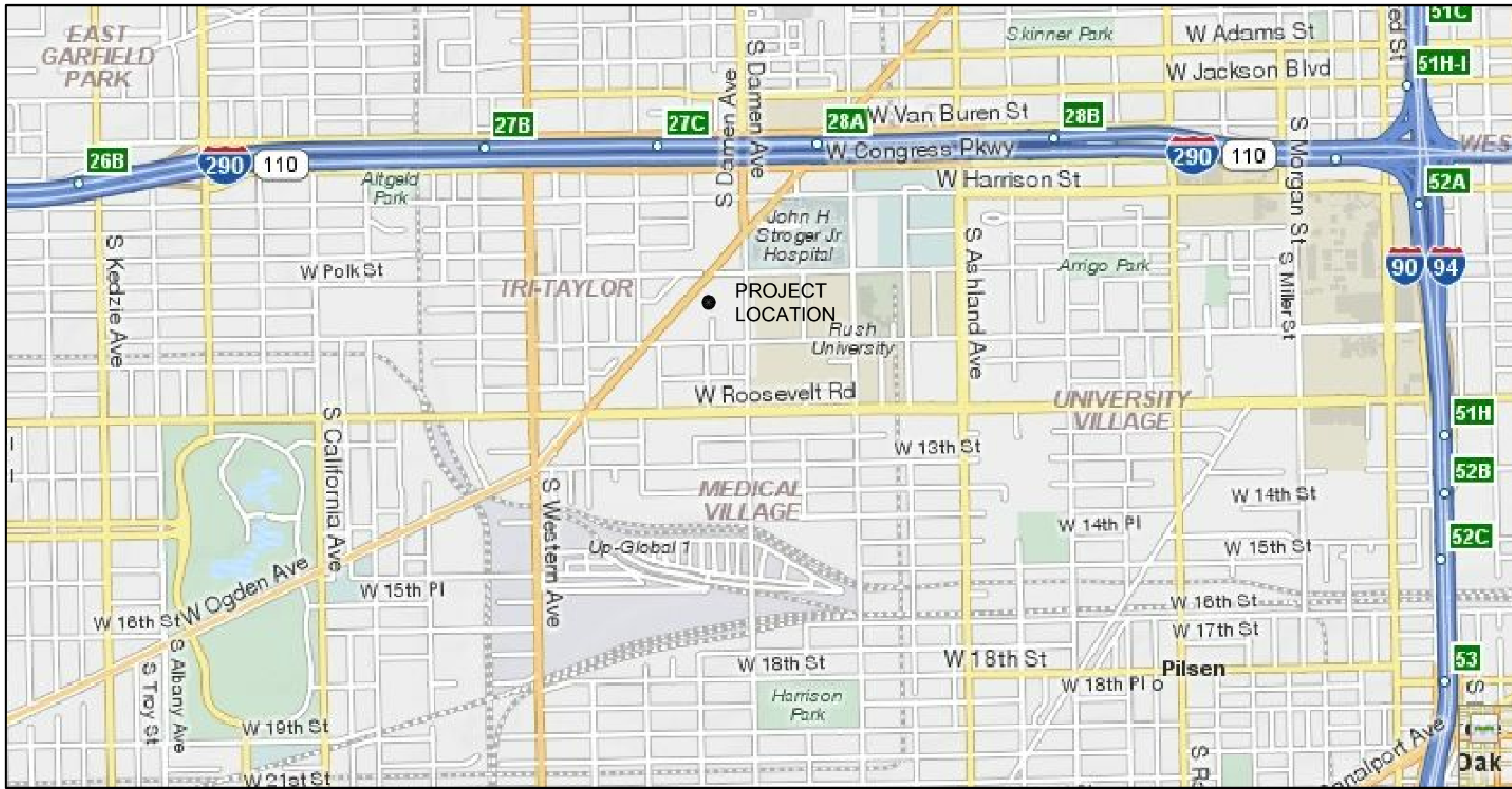
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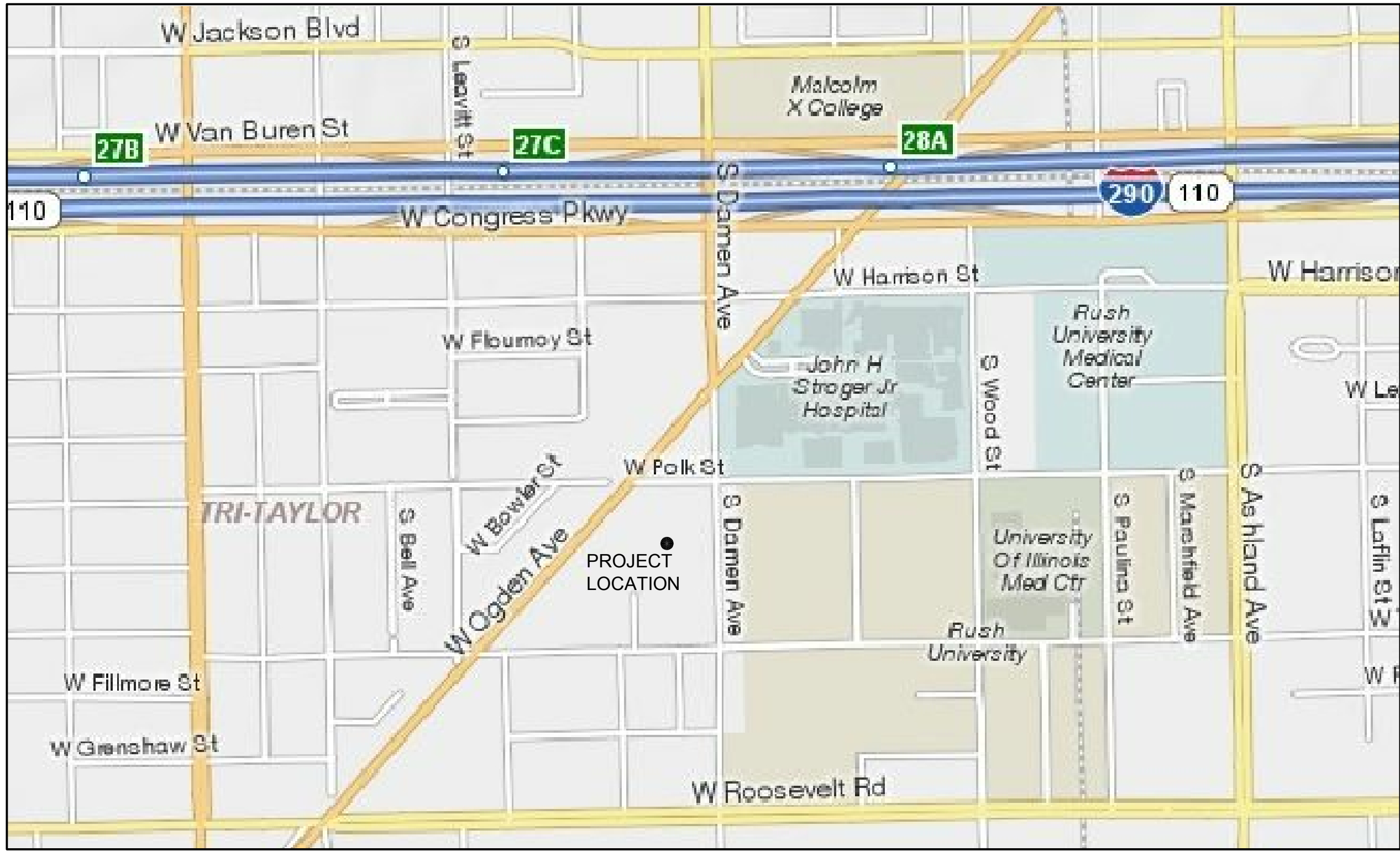
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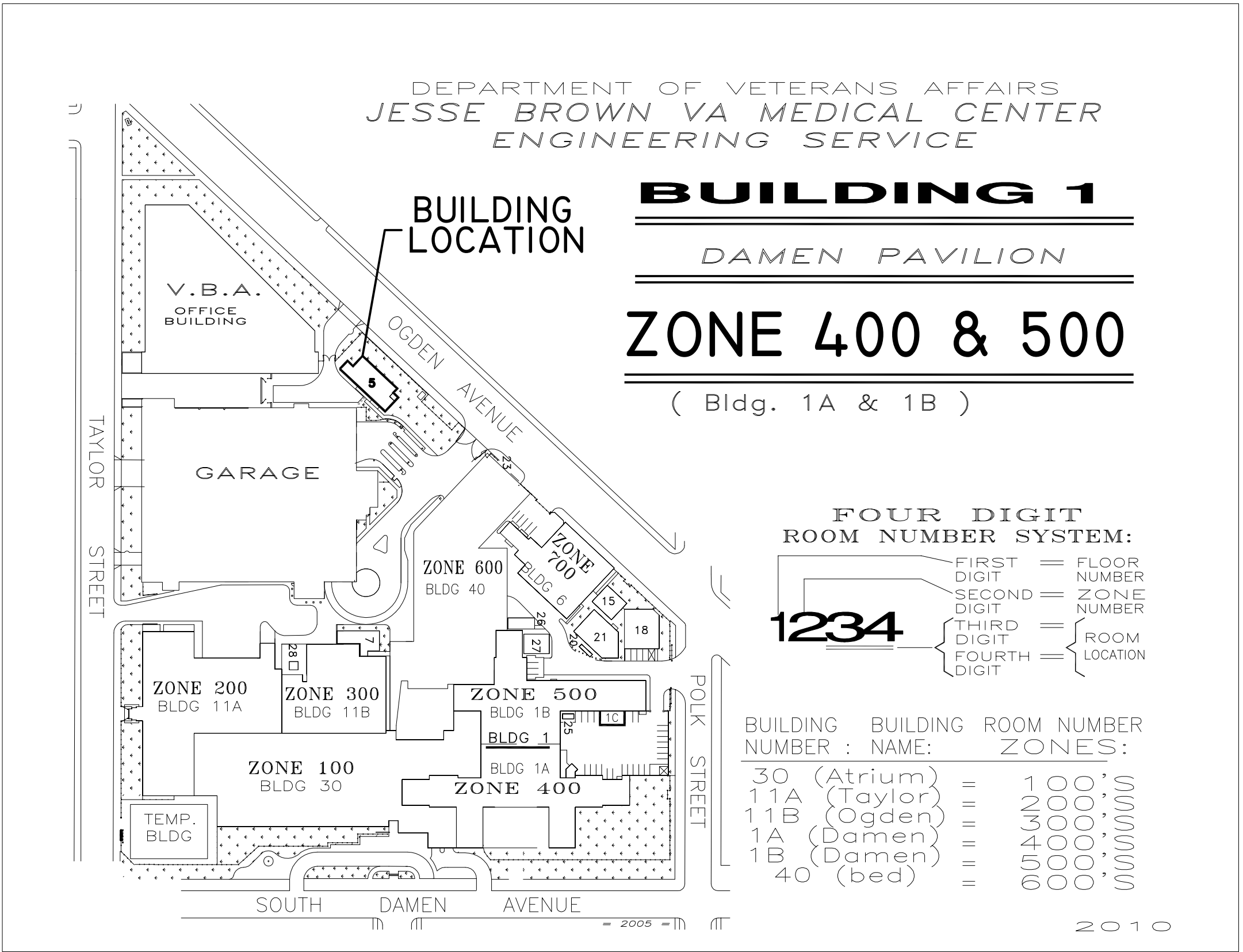
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VICINITY MAP  
north



LOCALITY MAP  
north



FACILITY MAP  
north

BUILDING CODE INFO:

BASIS OF DESIGN – VA TECHNICAL INFORMATION LIBRARY  
& CONSTRUCTION DESIGN GUIDES

DEFER TO 2009 IBC AS APPLICABLE

COMPLETION ITEM NO. \_\_\_\_\_  
NOT SPRINKLERED

<div>ISSUED FOR SOLICITATION04/30/2013</div> <div>RevisionsDate</div>		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management  Department of Veterans Affairs	
				TENG		TITLE SHEET & INDEX		ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		537-12-122			
				TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE., CHICAGO, IL 60601 TELEPHONE: 312/616-0000		Approved: Project Director		JESSE BROWN V.A.M.C.		Building Number 5			
								Date FEBRUARY 13, 2013		Checked JJC		Drawing Number 5 - GI - 001	
												Dwg1 of 16	



A

three inches = one foot

B

one and one half inches = one foot

C

one inch = one foot

D

three quarters inch = one foot

E

one half inch = one foot

F

three eighths inch = one foot

one quarter inch = one foot


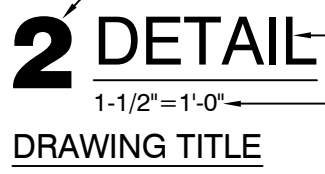
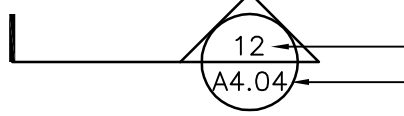
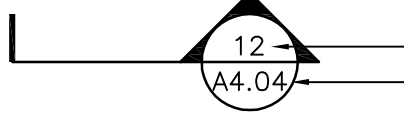
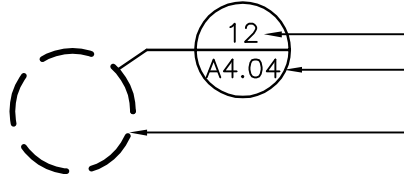
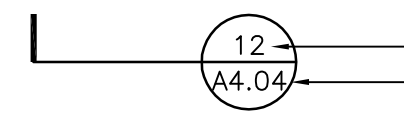
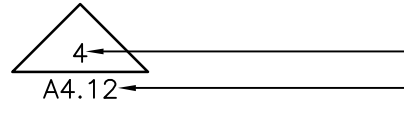
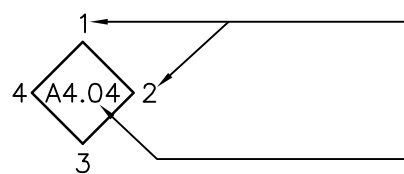
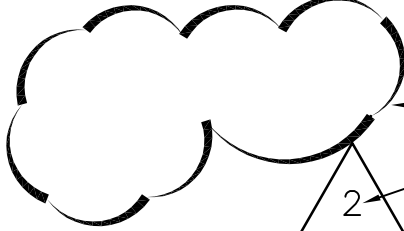
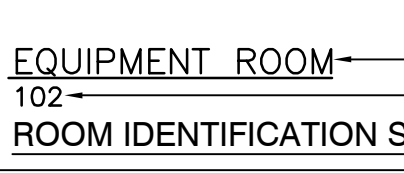

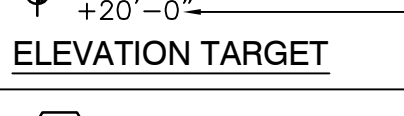
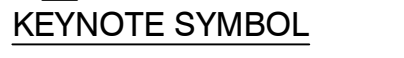
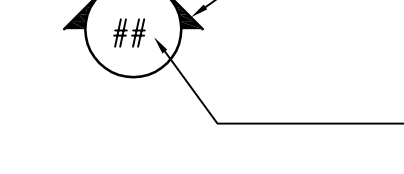
one eighth inch = one foot

GENERAL NOTES	
1.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR IN-FIELD DIMENSIONS.
2.	THE CONTRACTOR'S RESPONSIBILITY FOR DAMAGES DURING CONSTRUCTION: THE CONTRACTOR WILL REPAIR AND/OR REPLACE DAMAGED MATERIAL THAT ARE FOUND TO HAVE BEEN MADE DURING THE COURSE OF THE WORK AND CLEAN-UP PROCEDURE. REPAIR SHALL MEAN THAT THE ITEMS ARE RETURNED TO THEIR ORIGINAL STATE, AS A MINIMUM, AS DETERMINED BY THE OWNER.
3.	NOTES ON DRAWINGS SHALL APPLY TO SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT, UNLESS OTHERWISE NOTED.
4.	THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY AND ADEQUACY OF HIS PLANT, APPLIANCES AND METHODS. THE CONTRACTOR SHALL ERECT AND PROPERLY MAINTAIN AT ALL TIMES AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, PROPER SAFEGUARDS FOR THE PROTECTION OF WORKMEN, OWNER AND OWNERS PROPERTY, AND SHALL POST DANGER WARNINGS AGAINST HAZARDS CREATED BY THE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL DESIGNATE A RESPONSIBLE MEMBER OF HIS ORGANIZATION ON THE WORK, WHOSE DUTY SHALL BE THE PREVENTION OF ACCIDENTS. IN ABSENCE OF NOTICE TO THE CONTRARY, FILED IN WRITING TO THE OWNER, THIS PERSON WOULD BE SUPERINTENDANT OF THE CONTRACTOR.
5.	INSPECTION BY THE CONTRACTOR: THE CONTRACTOR ACKNOWLEDGES AND AGREES THAT HE HAS INDIVISIBLE AND A CONTRACTUAL OBLIGATION TO THE OWNER TO MAKE HIS OWN INSPECTIONS OF HIS OWN WORK AT EACH STAGE OF CONSTRUCTION; AND SHALL SUPERVISE PERFORMANCE OF WORK IN SUCH MANNER AS TO ENABLE HIM TO CERTIFY THAT THE WORK HAS BEEN EXECUTED STRICTLY IN ACCORDANCE WITH THE METHODS AND REGULATIONS GOVERNING THE EXECUTION OF THE WORK.
6.	CONTRACTOR SHALL NOT ALLOW HAZARDOUS CONDITIONS OR PUBLIC NUISANCES TO DEVELOP OR PERSIST IN THE PERFORMANCE OF THE WORK. CONTRACTOR SHALL INSTALL AND MAINTAIN APPROPRIATE SAFETY BARRIERS OR TEMPORARY PARTITIONS AS REQUIRED BY GOVERNING AGENCIES AND AT LOCATIONS TO WHICH THE GENERAL PUBLIC MAY HAVE ACCESS OR COME IN CONTACT WITH THE PROJECT SITE LIMITS.
7.	WHERE CUTTING AND PATCHING IS TO BE PERFORMED, CONTRACTOR SHALL VERIFY THAT SUCH WORK WILL NOT INTERFERE WITH SERVICES AND UTILITIES SCHEDULED TO REMAIN. CONTRACTOR SHALL NOTIFY OF ALL UTILITIES WHICH WILL BE AFFECTED AND INDICATE HOW LONG SERVICE WILL BE INTERRUPTED PRIOR TO ANY CUTTING.
8.	THE CONTRACTOR SHALL COORDINATE THE PROVISION OF, LOCATION OF, AND PLACEMENT OF INSERTS, HANGERS, PIPE SLEEVES, HOLES, PADS, ANCHOR BOLTS, ETC. WHICH ARE REQUIRED FOR THE INSTALLATION OF ITEMS.
9.	CONTRACTOR SHALL PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION AND NEW CONSTRUCTION TO MATCH EXISTING. NEW CONSTRUCTION AND PATCHED AREAS ARE TO RECEIVE FINISHES TO MATCH ADJACENT AREA. PATCH CEILINGS, FLOORS, WALLS AND BASES AS REQUIRED TO ACHIEVE A CONTINUOUS FINISHED APPEARANCE.
10.	REFUSE AND DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
11.	THE DOCUMENTS ARE BASED ON ORIGINAL DESIGN DRAWINGS AND CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF THE WORK.
12.	PRIOR TO COMMENCEMENT OF DEMOLITION WORK, CONTRACTOR SHALL FIELD SURVEY THE SITE TO DETERMINE THE CONDITION OF THE EXISTING SITE AND TO DISTINGUISH CLEARLY BETWEEN ITEMS TO BE REMOVED, ITEMS TO REMAIN AND ITEMS TO BE SALVAGED. COORDINATE DEMOLITION WORK WITH OWNER'S REPRESENTATIVE.
13.	THE ITEMS INDICATED TO BE REMOVED AND SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE CLEANED AND DELIVERED TO THE OWNER'S DESIGNATED STORAGE PRIOR TO COMMENCEMENT OF THE DEMOLITION WORK.
14.	THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES IN AREA OF WORK AND SHUT OFF, DISCONNECT AND CAP OR SEAL ALL UTILITIES AFFECTED BY THE DEMOLITION. THE FACILITIES WILL REMAIN IN OPERATION THROUGH OUT CONSTRUCTION. COORDINATE AND SCHEDULE INTERRUPTIONS IN UTILITY SERVICES WITH OWNER'S REPRESENTATIVE.
15.	THE CONTRACTOR SHALL PROTECT EXISTING BUILDING ELEMENTS FROM DAMAGE DUE TO DEMOLITION AND CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS WHICH ARE TO REMAIN AND WHERE DAMAGED DURING THE WORK, TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
16.	THE CONTRACTOR SHALL ERECT TEMPORARY PROTECTION SUCH AS PARTITIONS, FENCES, BARRICADES, RAILINGS, SIGNS ETC., AND SHALL CONDUCT DEMOLITION OPERATION IN MANNER TO ENSURE MINIMUM INTERFERENCE WITH ADJACENT OCCUPIED FACILITIES.
17.	WHERE PHASING OF THE NEW WORK IS REQUIRED, CONTRACTOR SHALL COORDINATE TEMPORARY CONSTRUCTION, DEMOLITION WORK AND NEW CONSTRUCTION IN MANNER TO ENSURE UNINTERRUPTED OPERATION.
18.	THE CONTRACTOR SHALL PATCH AND REPAIR EXISTING AREAS AFFECTED BY DEMOLITION AND NEW CONSTRUCTION TO MATCH EXISTING FIRE RESISTIVE CONSTRUCTION. NEW CONSTRUCTION AND PATCHED AREAS ARE TO RECEIVE FINISHES TO MATCH ADJACENT AREA AND TO ACHIEVE A CONTINUOUS FINISHED APPEARANCE.
19.	PENETRATIONS THROUGH EXISTING AND NEW FIRE RATED WALLS AND FLOOR/CEILING CONSTRUCTION TO RECEIVE FIRESTOP SYSTEM TO MAINTAIN INTEGRITY OF EXISTING OR NEW CONSTRUCTION RATED SYSTEM.

ARCHITECTURAL ABBREVIATIONS	
⊙	AT
ACOUST	ACOUSTICAL
AD	ACCESS DOOR
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALUM	ALUMINUM
ANCH	ANCHOR, ANCHORAGE
ANOD	ANODIZED
APP'D	APPROVED
ARCH	ARCHITECTURAL
ASSOC	ASSOCIATED
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
BD	BOARD
BB	BALL BEARING
BF	BOTH FACES
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BOT	BOTTOM
B/	BOTTOM OF
BP	BASE PLATE
BSMT	BASEMENT
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
CAB	CABINET
C/C, C TO C	CENTER TO CENTER
CEM	CEMENT
CEMPL	CEMENT PLASTER
CER	CERAMIC
CHK'D	CHECKED
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CLOS	CLOSET
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
CYL	CYLINDER
D	DEEP, DEPTH
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DM	DIMENSION
DL	DEAD LOAD
DS	DOWNSPOUT
DN	DOWN
DO	DITTO
DR	DOOR
DWG(S)	DRAWING(S)
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FLG	FLOORING
FLR	FLOOR
FRM	FRAME
FT(')	FEET (FOOT)
FTG	FOOTING
FURN	FURNITURE
FUT	FUTURE

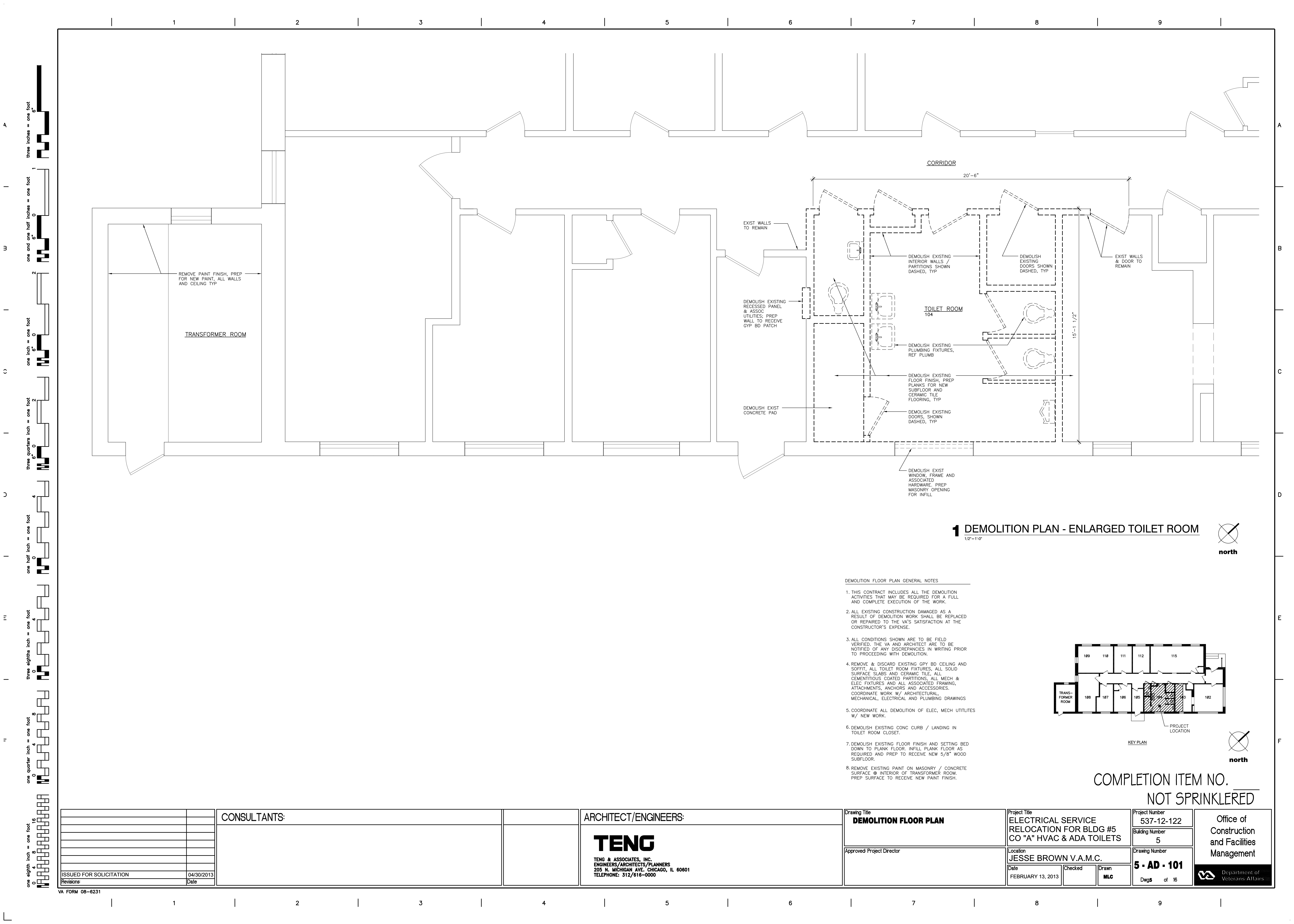
ARCHITECTURAL ABBREVIATIONS	
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GIR	GIRDER
GL	GLASS
GYP	GYP SUM
GYP.BD.	GYP SUM BOARD
H	HIGH
HC	HOLLOW CORE
HM	HOLLOW METAL
HDW	HARDWARE
HORIZ	HORIZONTAL
HP	HIGH POINT
HT(H)	HEIGHT
ID	INSIDE DIAMETER
IN(')	INCH
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT	JOINT
K	KIP (1000 LB.)
L	LENGTH
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
L.L.	LOWER LEVEL
LWT CONC	LIGHTWEIGHT CONCRETE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTG-HT.	MOUNTING HEIGHT
MTL	METAL
N/A	NOT APPLICABLE
NC	NO CHANGE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO,#	NUMBER
NOM	NOMINAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
PART	PARTITION
PERP	PERPENDICULAR
PCC	PORLAND CEMENT CONCRETE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PR	PAIR
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE
PROJ	PROJECTION
QT	QUARRY TILE
R	RISER
R.	RADIUS
RD	ROOF DRAIN
REF	REFERENCE, REFER TO
REFL	REFLECTED
REINF	REINFORCEMENT
RELOC	RELOCATE, RELOCATED
REPL	REPLACE
REQ	REQUIRE, REQUIRED
REV	REVISE, REVISION
RFG	ROOFING
RH	RIGHT HAND
RO	ROUGH OPENING

ARCHITECTURAL ABBREVIATIONS	
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SM	SIMILAR
SLBB	SHORT LEG BACK TO BACK
SPEC(S)	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL (STRUCTURE)
SUSP	SUSPENDED
T	TOP, THICK
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE & GROOVE
TEMP	TEMPORARY
TERR	TERRAZZO
THK	THICK, THICKNESS
THRU	THROUGH
TS	STRUCTURAL STEEL TUBE
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORIES
U.L.	UPPER LEVEL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
WT	WEIGHT
W	WIDTH, WIDE
W/	WITH
W/I	WITHIN
WC	WATER CLOSET
WD	WOOD
W/O	WITHOUT
WP	WORKING POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

ARCHITECTURAL SYMBOLS	
A4.03 A4.04 MATCH LINE	A4.03 A4.04 TOP SHEET NUMBER BOTTOM SHEET NUMBER
	NORTH INDICATOR SYMBOL NORTH TEXT
	DRAWING/DETAIL NUMBER DRAWING/DETAIL TITLE DRAWING/DETAIL SCALE
	DETAIL NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER AREA OF ENLARGEMENT
	DETAIL NUMBER SHEET NUMBER
	ELEVATION NUMBER SHEET NUMBER
	ELEVATION NUMBER SHEET NUMBER
	AREA OF REVISION REVISION NUMBER
	EQUIPMENT ROOM ROOM NAME ROOM NUMBER ROOM IDENTIFICATION SYMBOL
	WINDOW NUMBER
	REFERENCED ITEM ELEVATION
	KEYNOTE SYMBOL
	VIEW DIRECTOR PHOTO NUMBER

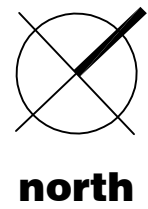
<div>ISSUED FOR SOLICITATION04/30/2013</div> <div>RevisionsDate</div>		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title <b>SYMBOLS &amp; ABBREVIATIONS</b>		Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		Project Number 537-12-122		Office of Construction and Facilities Management			
				TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 TELEPHONE: 312/616-0000		Approved: Project Director		Location JESSE BROWN V.A.M.C.		Building Number 5					
								Date FEBRUARY 13, 2013		Checked		Drawing Number <b>5 - GI - 002</b>		Department of Veterans Affairs	
										Drawn JJC		Dwg2 of 16			

COMPLETION ITEM NO. \_\_\_\_\_  
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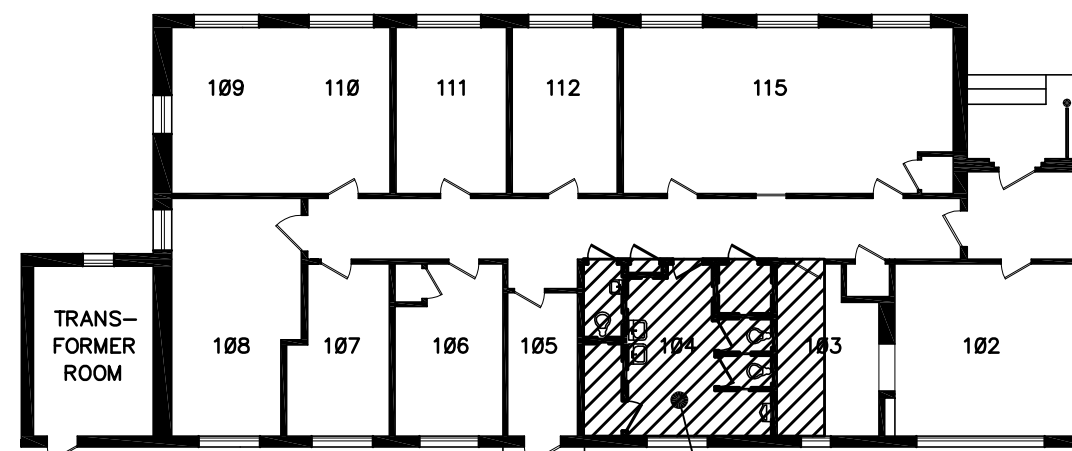
1 DEMOLITION PLAN - ENLARGED TOILET ROOM

1/2"=1'-0"

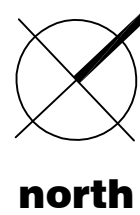


DEMOLITION FLOOR PLAN GENERAL NOTES

1. THIS CONTRACT INCLUDES ALL THE DEMOLITION ACTIVITIES THAT MAY BE REQUIRED FOR A FULL AND COMPLETE EXECUTION OF THE WORK.
2. ALL EXISTING CONSTRUCTION DAMAGED AS A RESULT OF DEMOLITION WORK SHALL BE REPLACED OR REPAIRED TO THE VA'S SATISFACTION AT THE CONSTRUCTOR'S EXPENSE.
3. ALL CONDITIONS SHOWN ARE TO BE FIELD VERIFIED. THE VA AND ARCHITECT ARE TO BE NOTIFIED OF ANY DISCREPANCIES IN WRITING PRIOR TO PROCEEDING WITH DEMOLITION.
4. REMOVE & DISCARD EXISTING GYP BD CEILING AND SOFFIT, ALL TOILET ROOM FIXTURES, ALL SOLID SURFACE SLABS AND CERAMIC TILE, ALL CEMENTITIOUS COATED PARTITIONS, ALL MECH. & ELEC FIXTURES AND ALL ASSOCIATED FRAMING, ATTACHMENTS, ANCHORS AND ACCESSORIES. COORDINATE WORK W/ ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS
5. COORDINATE ALL DEMOLITION OF ELEC, MECH UTILITIES W/ NEW WORK.
6. DEMOLISH EXISTING CONC CURB / LANDING IN TOILET ROOM CLOSET.
7. DEMOLISH EXISTING FLOOR FINISH AND SETTING BED DOWN TO PLANK FLOOR. INFILL PLANK FLOOR AS REQUIRED AND PREP TO RECEIVE NEW 5/8" WOOD SUBFLOOR.
8. REMOVE EXISTING PAINT ON MASONRY / CONCRETE SURFACE @ INTERIOR OF TRANSFORMER ROOM. PREP SURFACE TO RECEIVE NEW PAINT FINISH.

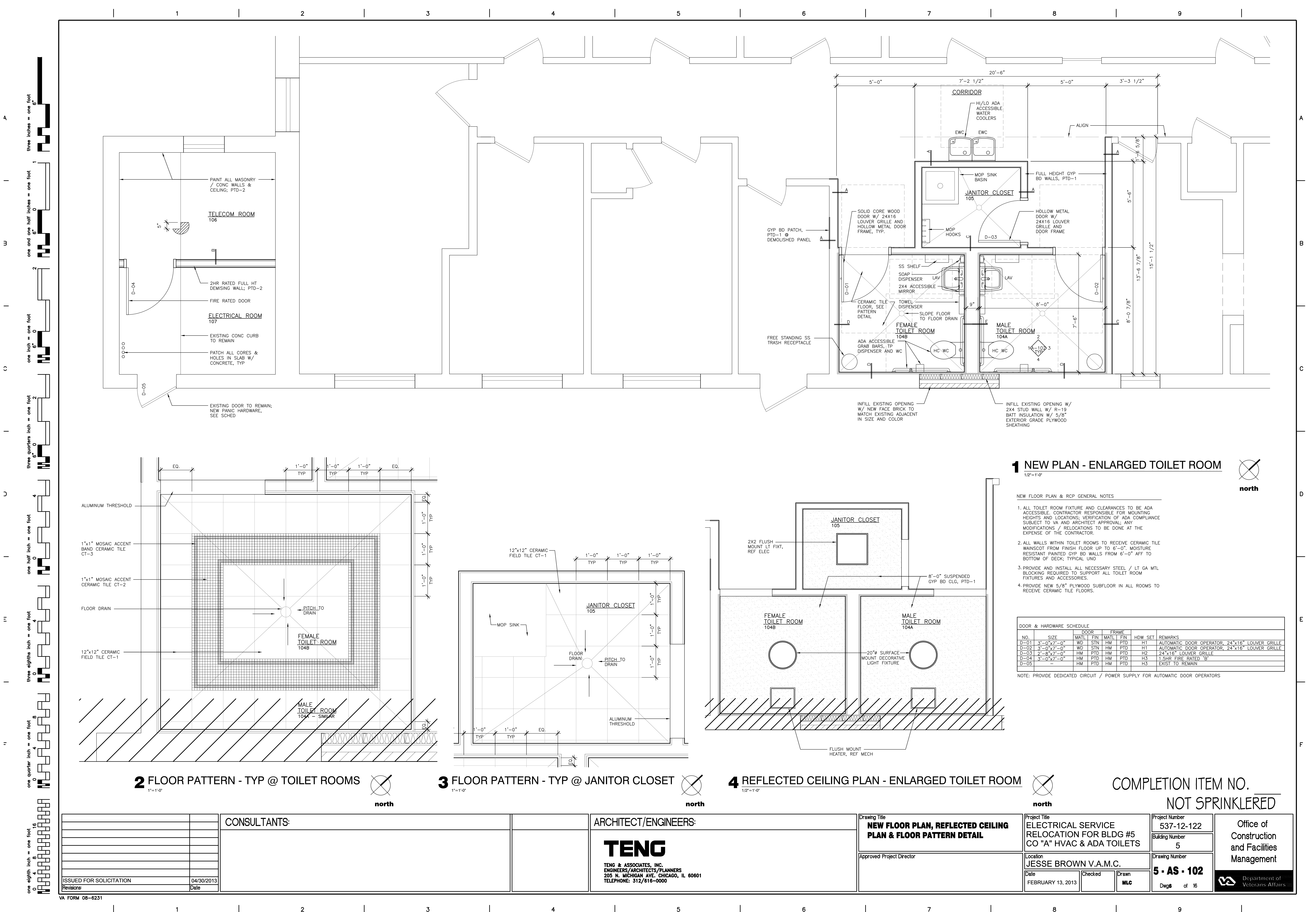


KEY PLAN



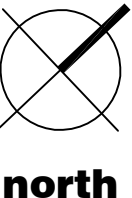
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						Approved Project Director		Location JESSE BROWN V.A.M.C.		Building Number 5							
								Date FEBRUARY 13, 2013		Checked		Drawn MLC		Drawing Number <b>5 - AD - 101</b>		Department of Veterans Affairs	
												Dwg5 of 16					



1 NEW PLAN - ENLARGED TOILET ROOM

1/2"=1'-0"



NEW FLOOR PLAN & RCP GENERAL NOTES

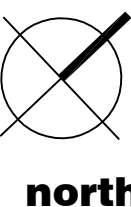
- 1. ALL TOILET ROOM FIXTURE AND CLEARANCES TO BE ADA ACCESSIBLE. CONTRACTOR RESPONSIBLE FOR MOUNTING HEIGHTS AND LOCATIONS; VERIFICATION OF ADA COMPLIANCE SUBJECT TO VA AND ARCHITECT APPROVAL; ANY MODIFICATIONS / RELOCATIONS TO BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- 2. ALL WALLS WITHIN TOILET ROOMS TO RECEIVE CERAMIC TILE WAINSCOT FROM FINISH FLOOR UP TO 6'-0". MOISTURE RESISTANT PAINTED GYP BD WALLS FROM 6'-0" AFF TO BOTTOM OF DECK; TYPICAL UNO
- 3. PROVIDE AND INSTALL ALL NECESSARY STEEL / LT GA MTL BLOCKING REQUIRED TO SUPPORT ALL TOILET ROOM FIXTURES AND ACCESSORIES.
- 4. PROVIDE NEW 5/8" PLYWOOD SUBFLOOR IN ALL ROOMS TO RECEIVE CERAMIC TILE FLOORS.

DOOR & HARDWARE SCHEDULE									
NO.	SIZE	DOOR		FRAME		HWD SET	REMARKS		
		MATL	FIN	MATL	FIN				
D-01	3'-0"x7'-0"	WD	STN	HM	PTD	H1	AUTOMATIC DOOR OPERATOR, 24"x16" LOUVER GRILLE		
D-02	3'-0"x7'-0"	WD	STN	HM	PTD	H1	AUTOMATIC DOOR OPERATOR, 24"x16" LOUVER GRILLE		
D-03	2'-0"x7'-0"	HM	PTD	HM	PTD	H2	24"x16" LOUVER GRILLE		
D-04	3'-0"x7'-0"	HM	PTD	HM	PTD	H3	1.5HR FIRE RATED 'B'		
D-05	-	HM	PTD	HM	PTD	H3	EXIST TO REMAIN		

NOTE: PROVIDE DEDICATED CIRCUIT / POWER SUPPLY FOR AUTOMATIC DOOR OPERATORS

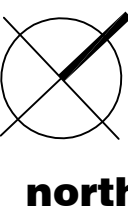
2 FLOOR PATTERN - TYP @ TOILET ROOMS

1"=1'-0"



3 FLOOR PATTERN - TYP @ JANITOR CLOSET

1"=1'-0"



4 REFLECTED CEILING PLAN - ENLARGED TOILET ROOM

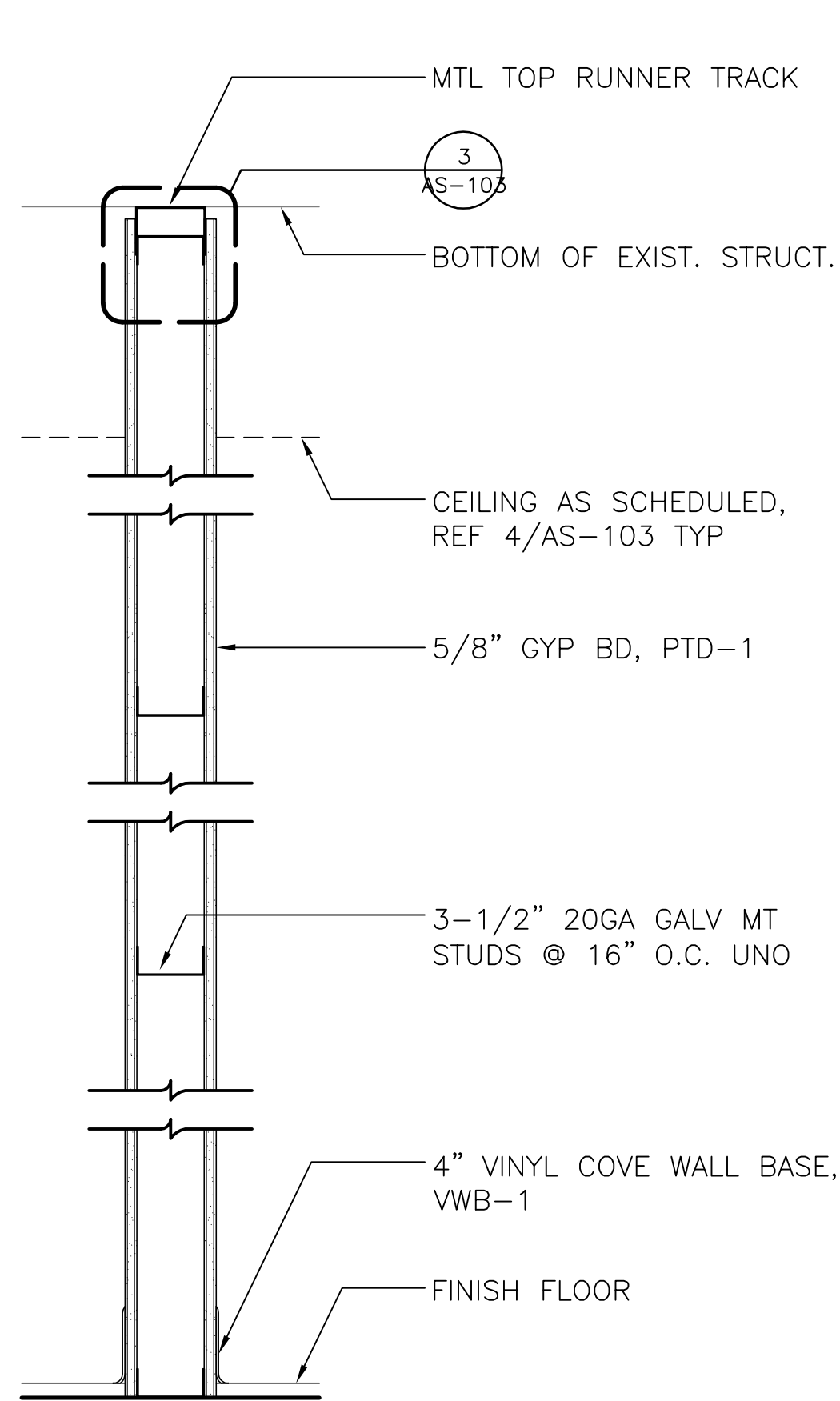
1/2"=1'-0"



COMPLETION ITEM NO. NOT SPRINKLERED

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title <b>NEW FLOOR PLAN, REFLECTED CEILING PLAN &amp; FLOOR PATTERN DETAIL</b>		Project Title <b>ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC &amp; ADA TOILETS</b>		Project Number <b>537-12-122</b>		Office of Construction and Facilities Management Department of Veterans Affairs	
				Approved: Project Director		Location <b>JESSE BROWN V.A.M.C.</b>		Building Number <b>5</b>			
ISSUED FOR SOLICITATION		Date <b>04/30/2013</b>				Date <b>FEBRUARY 13, 2013</b>		Drawing Number <b>5 - AS - 102</b>			
Revisions		Date				Checked <b>MLC</b>		Dwg 6 of 16			



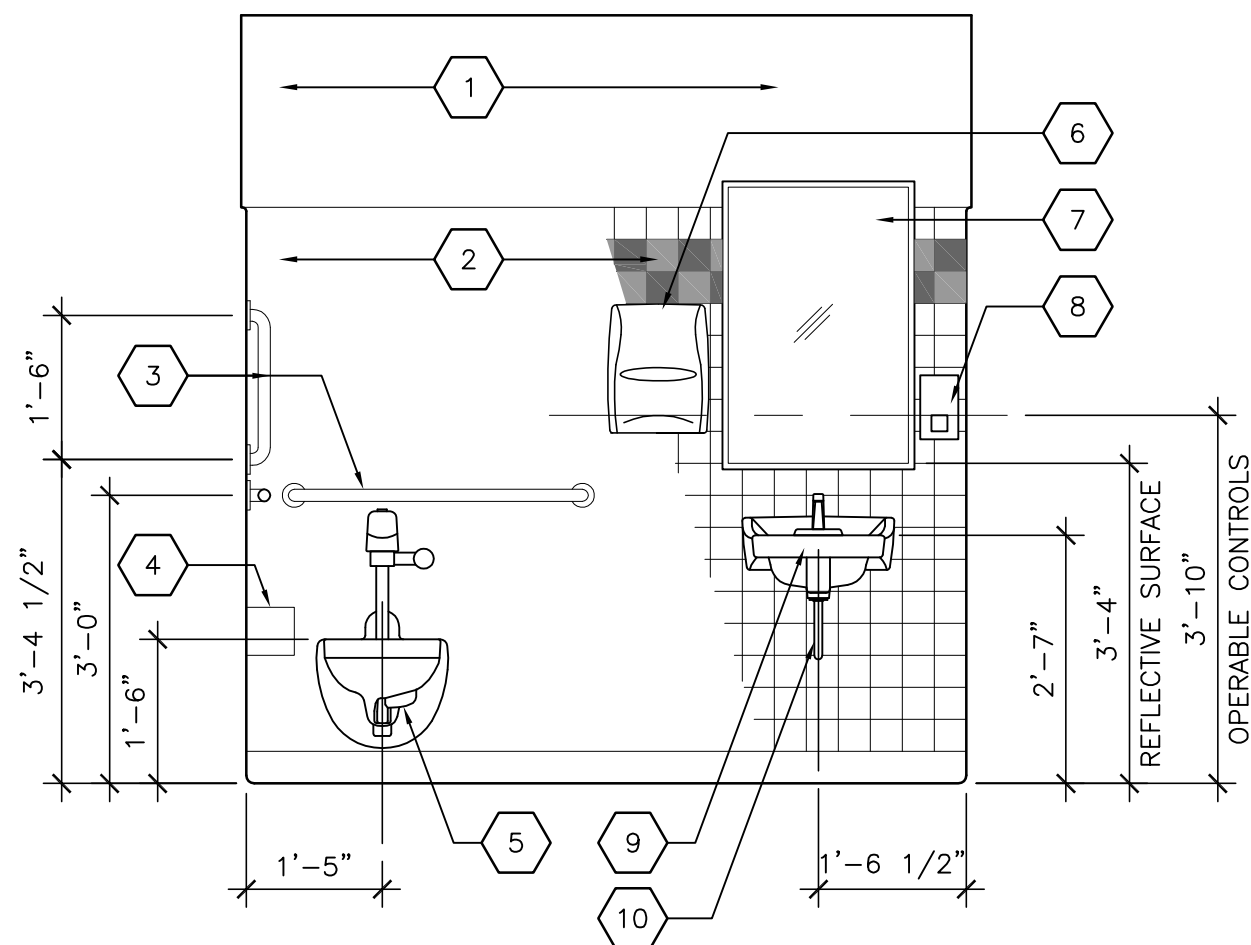


## TYPE A

A.1 — 6" 20 GA GALV MT  
STUDS @ 16" O.C. UNO

### 1 PARTITION TYPES

1-1/2"=1'-0"



## 1

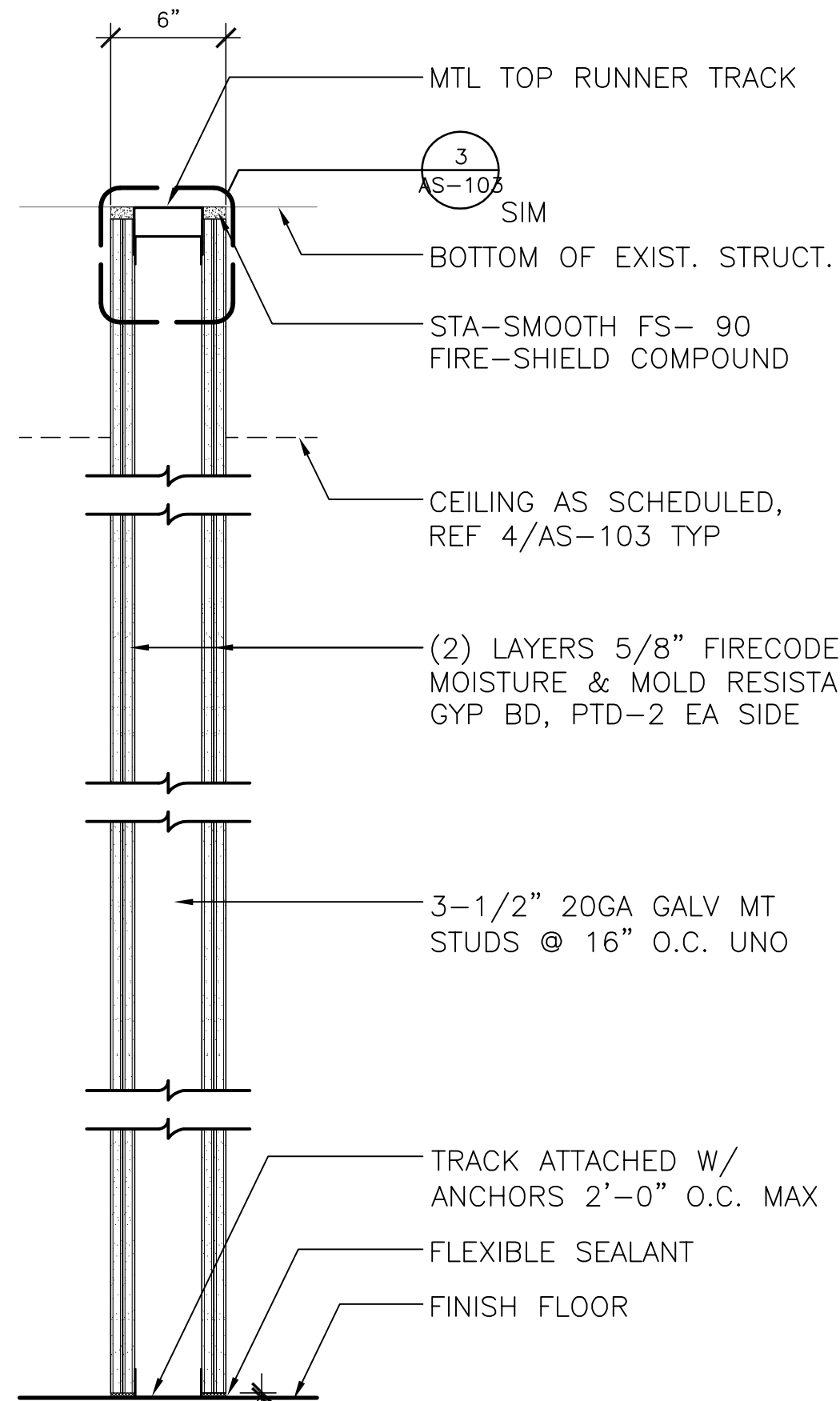
### 2 INTERIOR ELEVATIONS, TYPICAL

1/2"=1'-0"

#### INTERIOR ELEVATION KEY NOTES

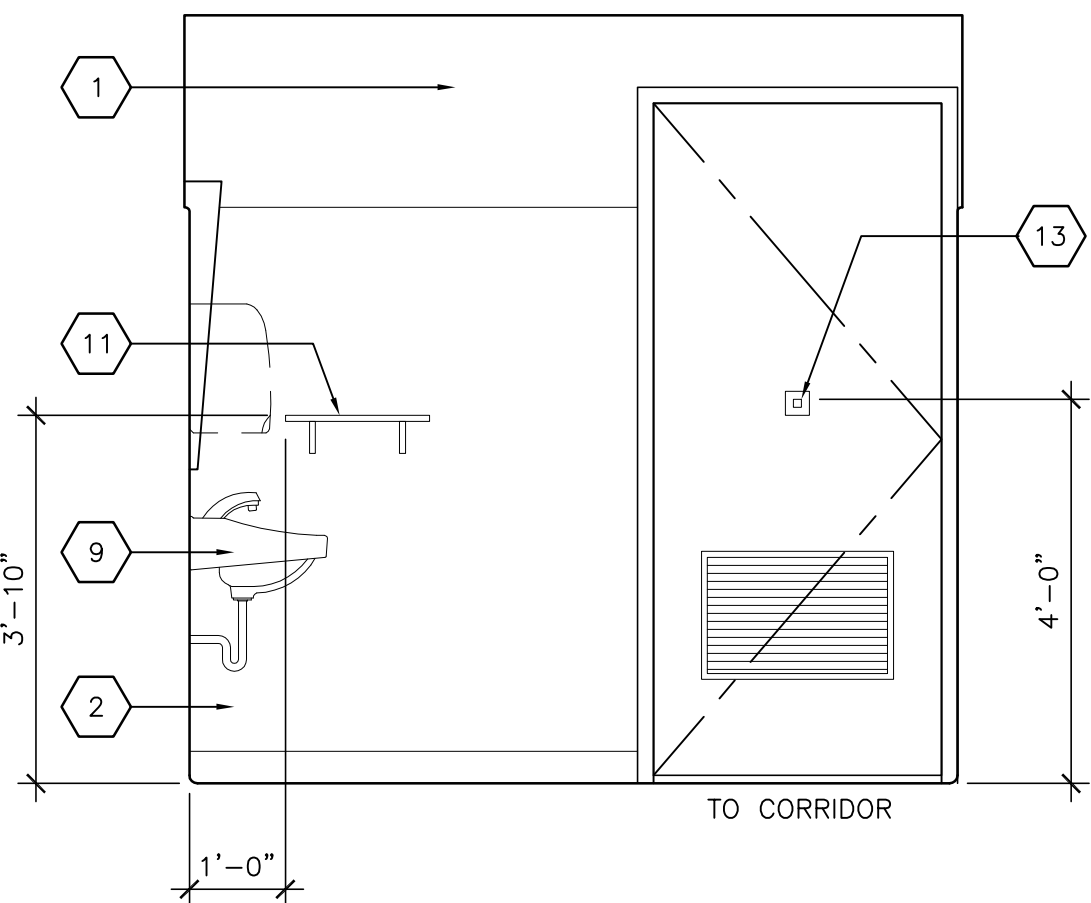
- 1 MOISTURE RESISTANT GYP BD, PAINTED
- 2 CERAMIC TILE WAINSCOT CT-4 W/ ALT DETAIL BAND OF CT-5 & CT-6
- 3 ACCESSIBLE GRAB BARS
- 4 SURFACE MOUNTED TOILET PAPER DISPENSER
- 5 ACCESSIBLE WALL MOUNTED WATER CLOSET W/ SENSOR OPERATED FLUSH VALVE
- 6 SURFACE MOUNTED PAPER TOWEL DISPENSER

- 7 SURFACE MOUNTED FULLY POLISHED TILT MIRROR 24"(W) x 36"(H)
- 8 SURFACE MOUNTED SOAP DISPENSER
- 9 ACCESSIBLE SURFACE MOUNTED LAV W/ SENSOR OPERATED GOOSENECK FAUCET
- 10 HEAT SHIELDING PIPE WRAP
- 11 SURFACE MOUNTED STAINLESS STEEL SHELF 18"(L) x 6"(D)
- 12 FREE STANDING SS TRASH RECEPTACLE
- 13 SURFACE MOUNTED COAT HOOK

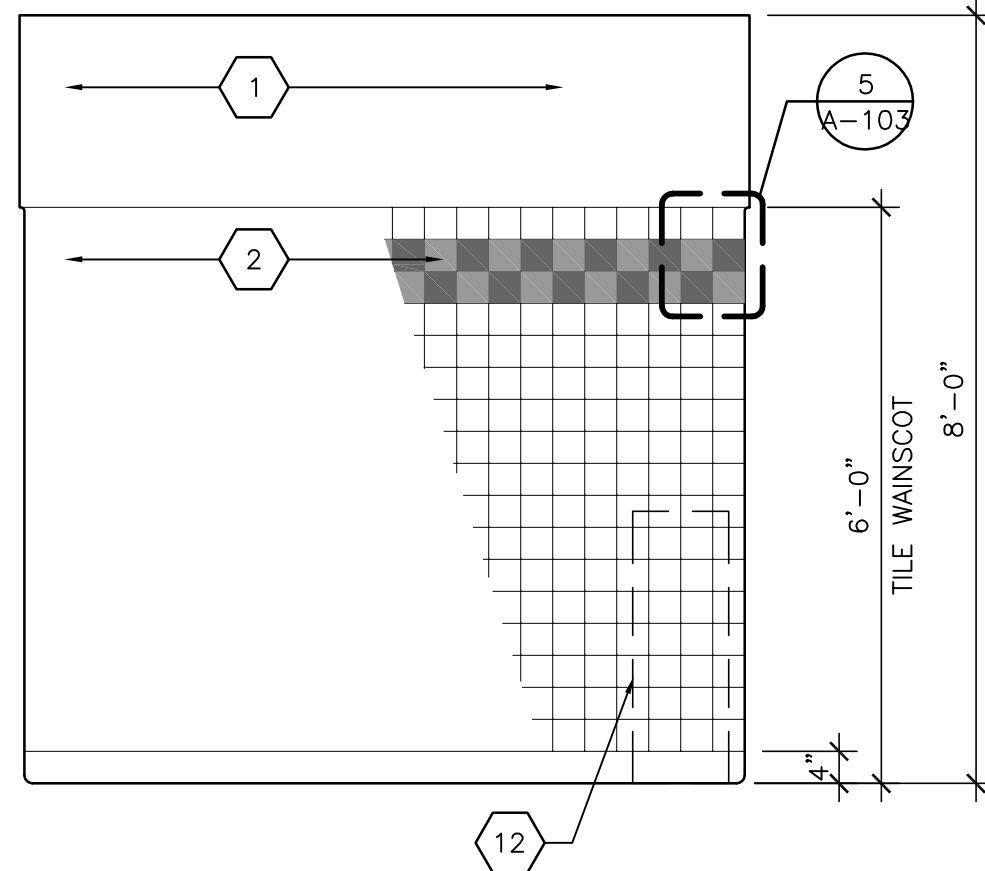


## TYPE B

2HR FIRE RATED  
UL DESIGN NO. U301



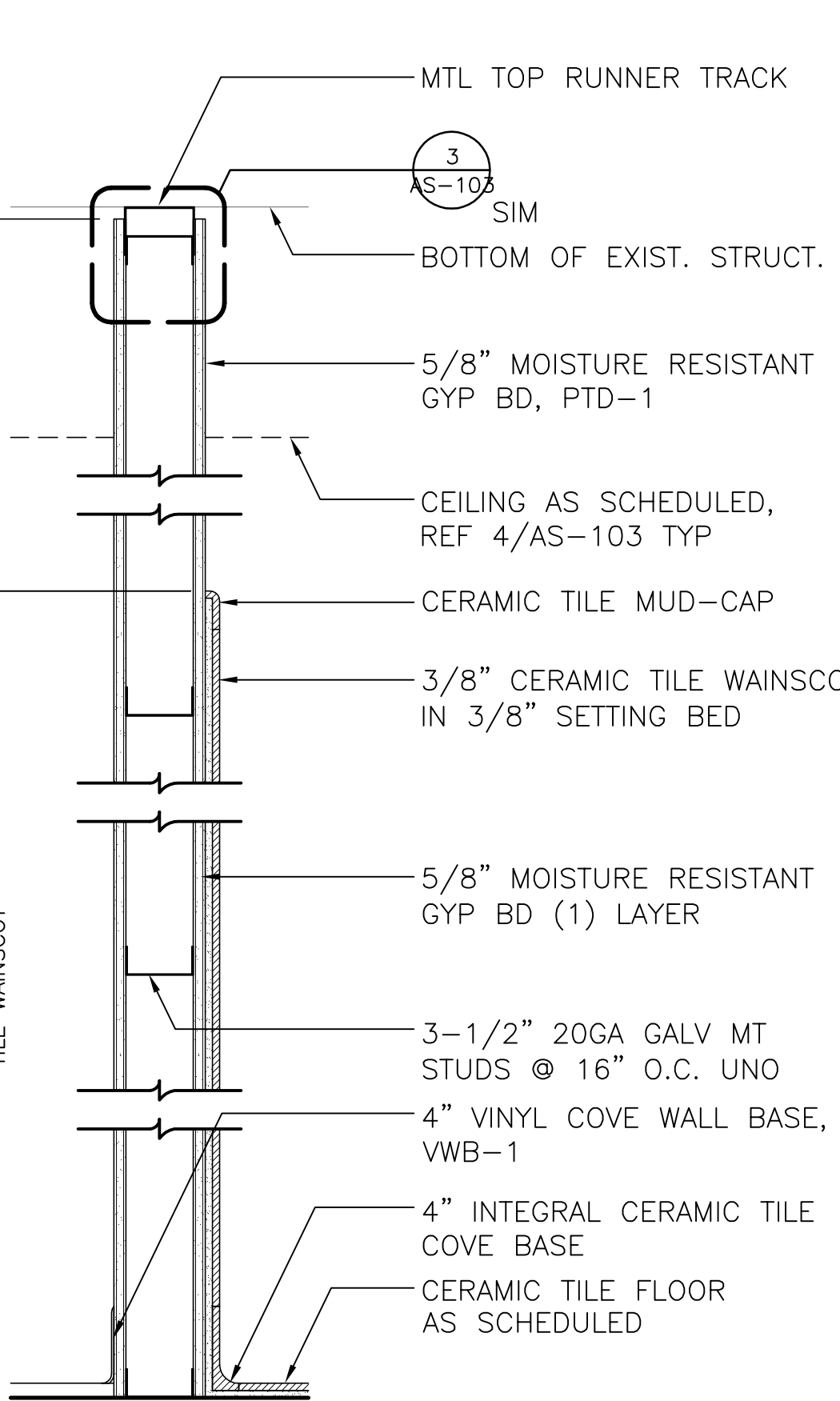
## 2



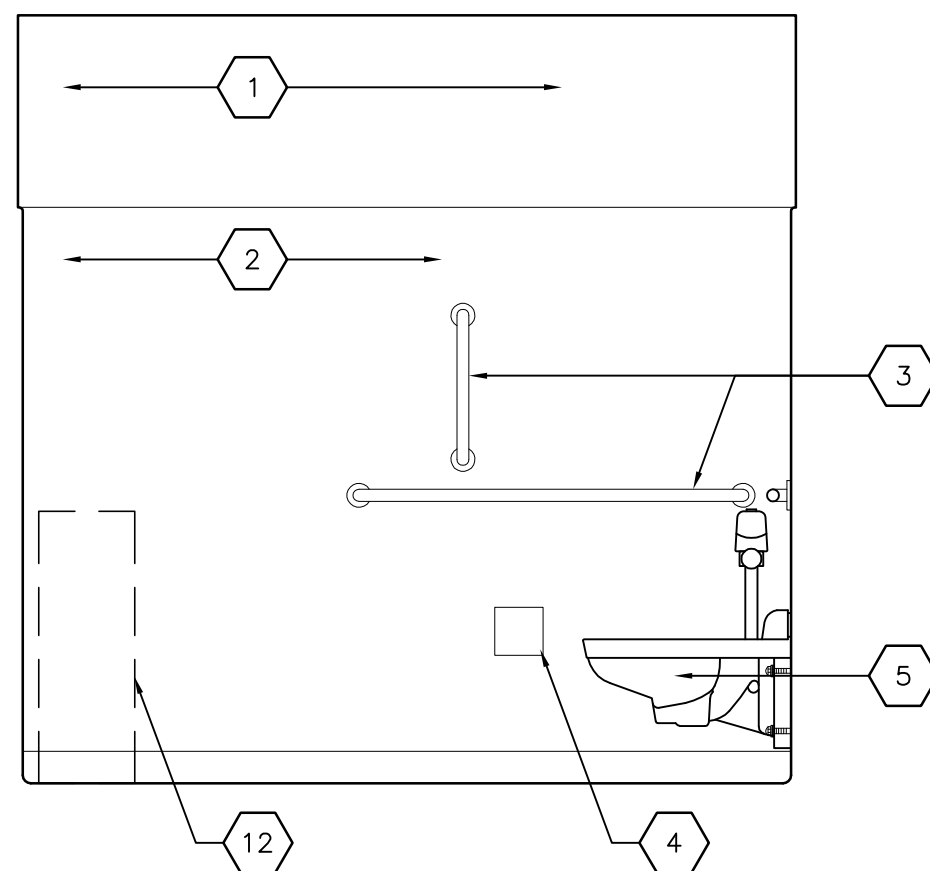
## 3

#### PARTITION TYPE GENERAL NOTES

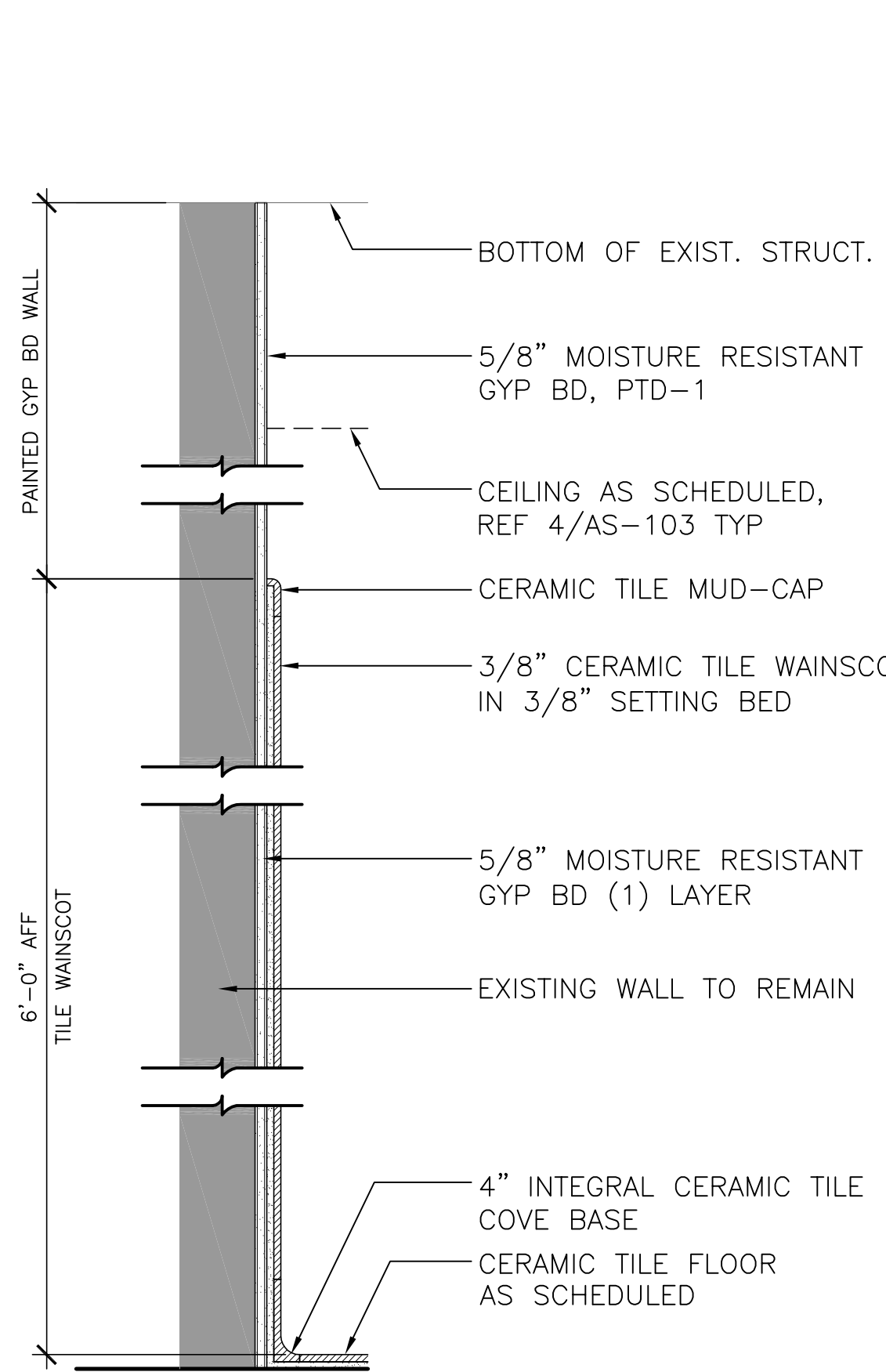
1. WATER/MOLD RESISTANT GYPSUM BD. TO BE USED IN ALL AREAS UNLESS OTHERWISE NOTED.
2. ALL WALLS WITHIN TOILET ROOMS TO RECEIVE CERAMIC TILE WAINSCOT FROM FINISH FLOOR UP TO 6'-0", PAINTED GYP BD WALLS FROM 6'-0" AFF TO BOTTOM OF DECK; TYPICAL UNO
3. PROVIDE AND INSTALL ALL NECESSARY STEEL / LT GA MTL BLOCKING REQUIRED TO SUPPORT ALL TOILET ROOM FIXTURES AND ACCESSORIES.
4. CONFIRM EXISTING WALL CONDITIONS ONCE DEMO. IS COMPLETED. MINIMAL BUILDOUT FROM EXISTING WALL IS INTENDED TO PRESERVE AVAILABLE CLEARANCES. CONSTRUCT NEW WALL TO "IN-FILL" AT EXISTING MASONRY WALL OPENINGS. ALIGN EXISTING AND NEW WALLS TO CREATE A SEAMLESS TRANSITION FOR APPLICATION OF SURFACE FINISH MATERIALS. PROVIDE REQUIRED DEPTH FOR ACCESSORIES AND PIPE CHASE WITHIN WALL AS SPECIFIED.



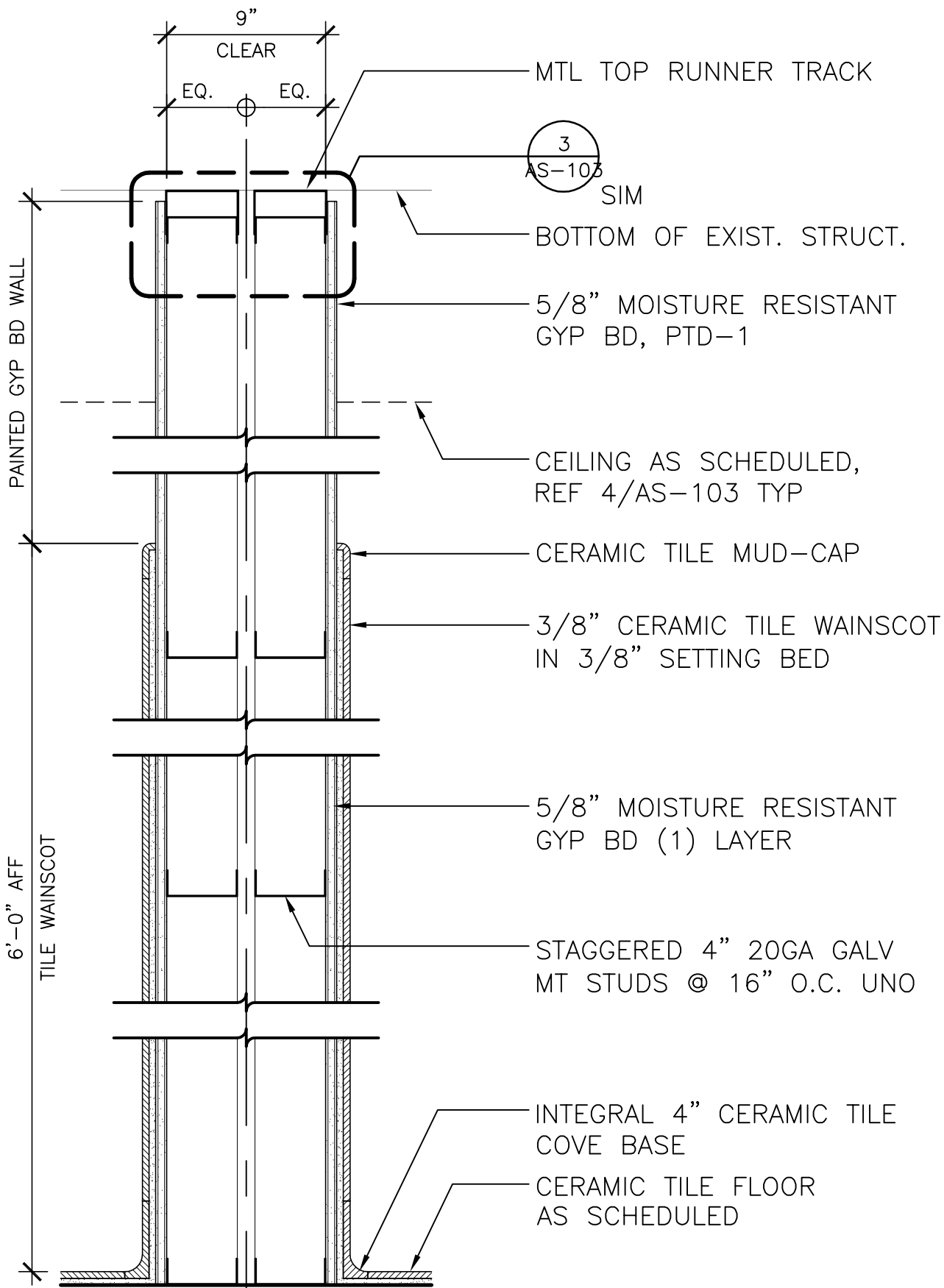
## TYPE C



## 4

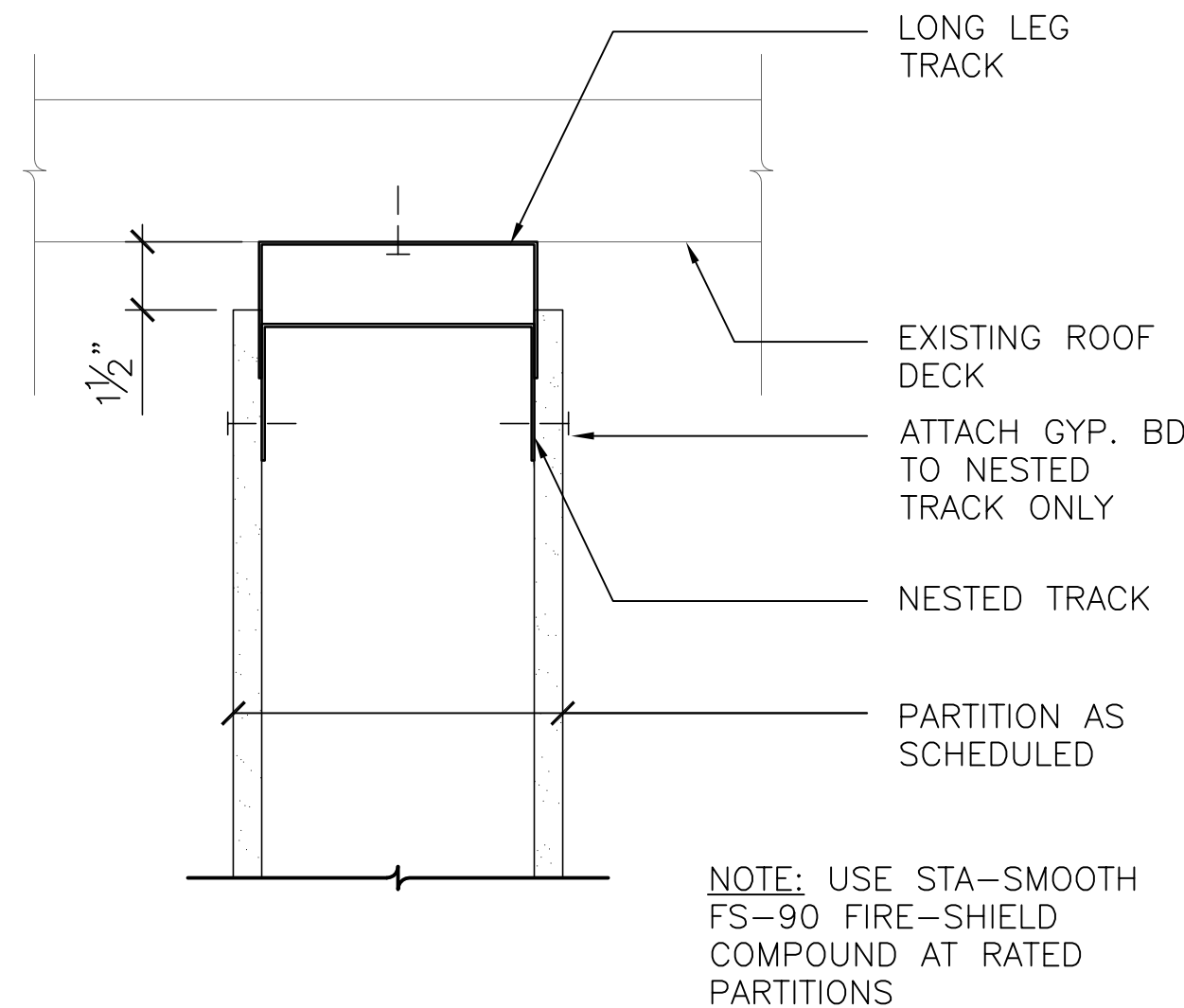


## TYPE D



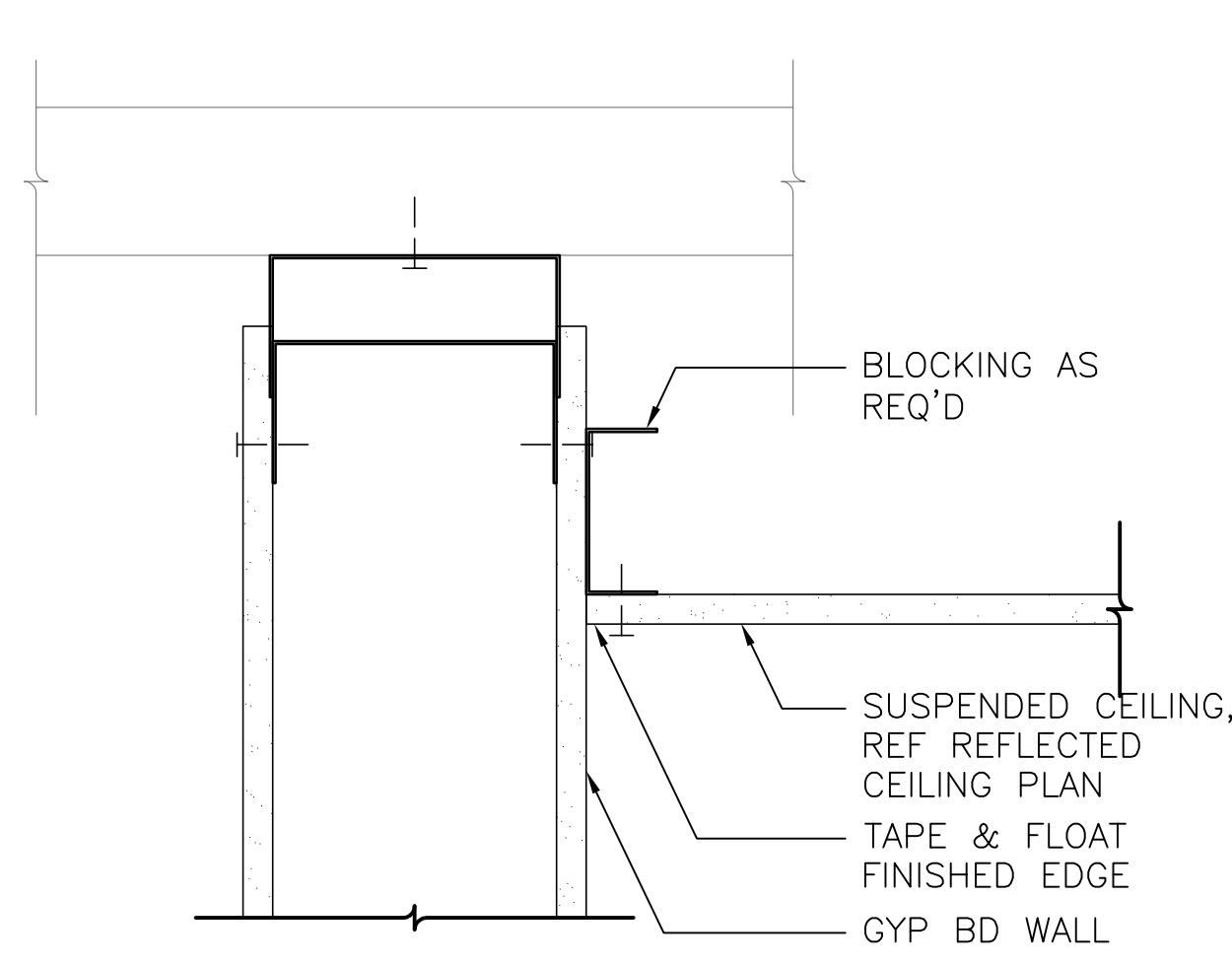
## TYPE E

NOTE: FINISHES / CONSTRUCTION  
TYP OF EACH SIDE OF PLUMBING  
CHASE WET WALL



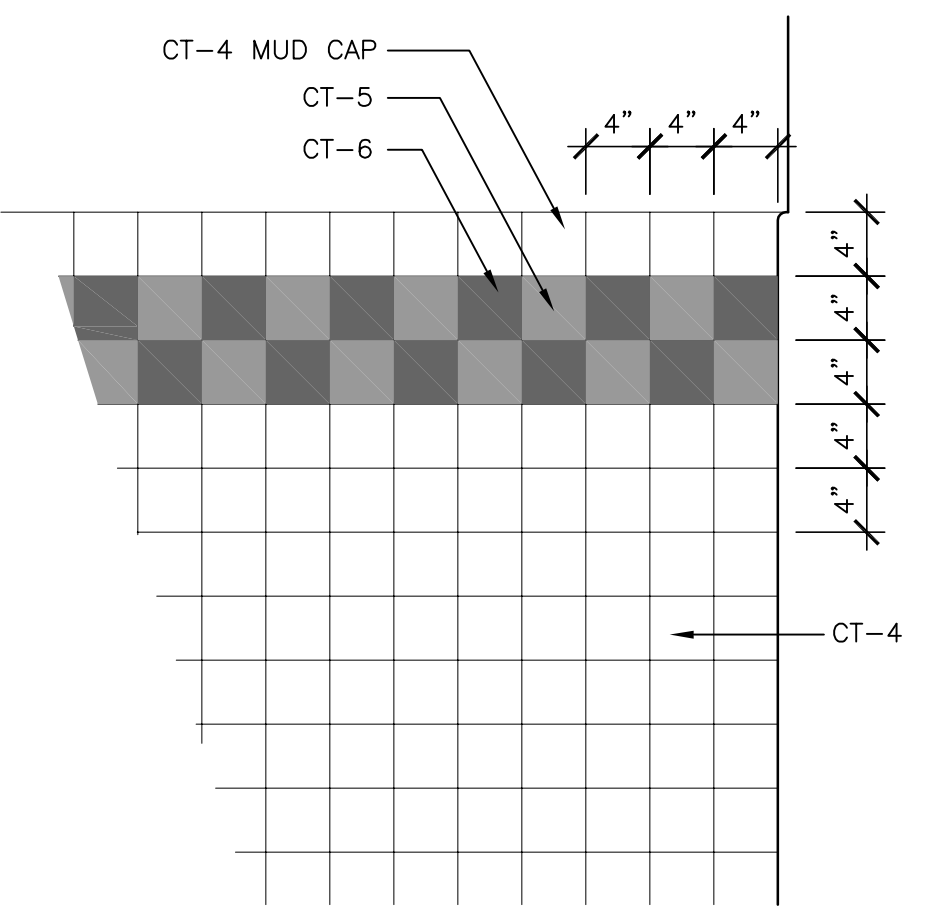
### 3 PARTITION DETAILS

3'-1'-0"



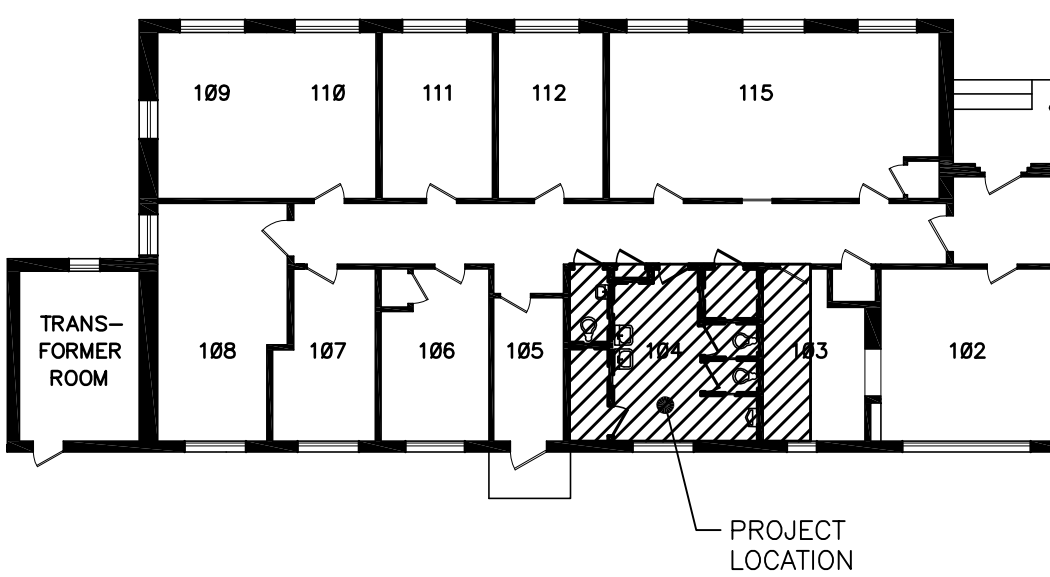
### 4 PARTITION DETAILS

3'-1'-0"




### 5 TILE PATTERN DETAL, TYPICAL

1/2"=1'-0"



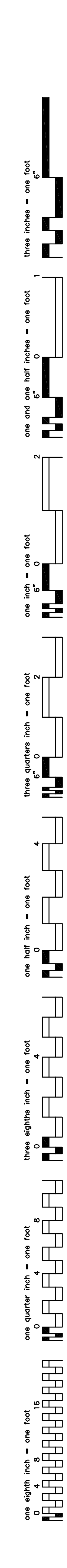
### COMPLETION ITEM NO.

NOT SPRINKLERED

		CONSULTANTS:			ARCHITECT/ENGINEERS:	<div>TENG</div> <div>TENG &amp; ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 TELEPHONE: 312/616-0000</div>	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management
							PARTITION TYPES & INTERIOR ELEVATIONS		ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		537-12-122		
											Building Number 5		
											Drawing Number		
											5 - AS - 103		
											Dwg7 of 16		
ISSUED FOR SOLICITATION		04/30/2013										 Department of Veterans Affairs	
Revisions		Date											







GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES, LATEST EDITIONS.
2. THIS CONTRACTOR PERFORMING WORK ON THE PROJECT MUST BE LICENSED TO PERFORM THE WORK. TRADESMEN SKILLED IN THE WORK TASK MUST PERFORM THE WORK.
3. THIS CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK TO BE DONE UNDER THE SPECIFICATIONS OF THE SPECIFICATION AND THEIR RELATED DRAWINGS AND SHALL SO COORDINATE AND SCHEDULE HIS WORK AS NOT TO CAUSE DELAYS OR INTERFERENCE WITH THE WORK OF OTHERS. SUCH COORDINATION AND SCHEDULING SHALL ACCOMPLISH THE INSTALLATION OF EQUIPMENT AND PIPING WITH A MINIMUM OF CUTTING THROUGH MASONRY AND OTHER ADJUSTMENTS.
4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZE AND LOCATION OF ANCHORS, CHASES, RECESSES, OPENINGS, ETC., REQUIRED FOR THE PROPER INSTALLATION OF HIS WORK. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES IN STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED. SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF MECHANICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK.
5. INSTALL EQUIPMENT AND MATERIALS TO PROVIDE REQUIRED ACCESS FOR SERVICING AND MAINTENANCE. COORDINATE THE FINAL LOCATION OF CONCEALED EQUIPMENT AND DEVICES REQUIRING ACCESS WITH FINAL LOCATION AND SIZE OF REQUIRED ACCESS PANELS AND DOORS. ALLOW AMPLIE SPACE FOR REMOVAL OF ACCESSIBLE LOCATION. INSTALL SERVICING EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PROVIDE THE MINIMUM MANUFACTURER'S RECOMMENDED AND CODE REQUIRED CLEARANCE.
6. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENT OF THE ACTUAL EQUIPMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
7. BEFORE SUBMITTING A BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH CONSTRUCTION CONDITIONS. NO CONSIDERATION OR REMUNERATION WILL BE GIVEN FOR HIS FAILURE TO DO SO.
8. WHERE A DISCREPANCY EXISTS WITHIN THE SPECIFICATIONS, AMONG THE DRAWINGS, OR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, REFER TO SPECIFICATIONS.
9. THE DESIGN DRAWINGS, AS SUBMITTED, ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, PIPING AND DUCTWORK UNLESS DIMENSIONS ARE GIVEN. DRAWINGS ARE NOT TO BE SCALED.
10. EQUIPMENT SHALL BE INSTALLED ALONG THE GENERAL ARRANGEMENT INDICATED ON THE DRAWINGS, AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
11. IF THIS CONTRACTOR PROPOSE TO INSTALL EQUIPMENT REQUIRING SPACE CONDITIONS OTHER THAN THOSE AS SPECIFIED AND/OR SHOWN ON THE DESIGN DRAWINGS, OR TO REARRANGE THE EQUIPMENT, HE SHALL ASSUME FULL RESPONSIBILITY FOR REARRANGEMENT OF THE SPACE AND SHALL OBTAIN THE FULL APPROVAL OF THE DESIGN PROFESSIONAL BEFORE PROCEEDING WITH THE WORK.
12. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE SLEEVES ( 1-1/2 TIMES THE SIZE OF THE PIPE) AND SHALL BE OF SIMILAR MATERIAL TO PREVENT REACTION BETWEEN PIPE AND SLEEVE.
13. THIS CONTRACTOR SHALL PROVIDE AND INSTALL FIRE STOPPING IMMEDIATELY, AS TO COMPLETELY SEAL ALL NEW PENETRATIONS OF FIRE RATED ASSEMBLIES, WALLS AND CEILINGS CAUSED BY THIS TRADE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO AN UNDERWRITER'S LABORATORIES APPROVED THROUGH PENETRATION FIRE STOPPING PROTECTION SYSTEM, HAVE BEEN TESTED IN ACCORDANCE WITH ASTM #E-814AND UL #1479, AND SHALL HAVE AN "F" RATING NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED. THE ANNULAR SPACE BETWEEN PIPE AND THE FIRE RATED ASSEMBLY SHALL BE FILLED WITH THE APPROVED MATERIAL SO AS TO MAINTAIN THE INTEGRITY OF THE FIRE RATING OF THE ASSEMBLY PENETRATED. INSULATION SHALL NOT PASS THROUGH FIRE RATED ASSEMBLIES.
14. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ESCUTCHEONS ON PIPES PASSING THROUGH WALLS. CONTRACTOR SHALL PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL PIPES AT FIXTURE SUPPLIES, TRAPS AND OTHER APPURTENANCES PASSING THROUGH WALLS OF FINISHED AREAS.
15. WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR MATERIALS, DIELECTRIC UNIONS AND FLANGES SHALL BE USED TO PREVENT ELECTROLYTIC REACTION.
16. ALL NEW DOMESTIC WATER PIPING WITHIN THE BUILDING SHALL BE INSULATED.
17. ALL PIPING SHALL BE SUSPENDED INDEPENDENTLY FROM BUILDING STRUCTURE. PIPING AND ACCESSORIES SHALL BE KEPT AS TIGHT TO BUILDING STRUCTURE AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE BELOW AND TO MINIMIZE ANY PIPE SWING AND INSTABILITY.
18. PIPE HANGERS SHALL BE CONSTRUCTED TO ALLOW FOR PROPER PITCH AND EXPANSION. OF PIPES. HANGERS FOR INSULATED PIPING SHALL BE SUFFICIENT SIZE TO PERMIT INSULATION TO EXTEND THROUGH SAME. INSULATION PROTECTION SADDLE SHALL BE FURNISHED AND INSTALLED AT EACH HANGER.
19. WHERE A PIPE OR EQUIPMENT HANGER OCCURS BETWEEN THE BUILDING STRUCTURAL MEMBERS, CONTRACTOR SHALL PROVIDE SPECIAL STEEL ANGLE, CHANNEL OR UNISTRUT MEMBERS FOR SUPPORT OF SUCH HANGER, WELDED OR BOLTED TO STEEL FRAMING OR ANCHORED TO CONCRETE AND APPROVED BY STRUCTURAL ENGINEER.
20. HANGERS OR SUPPORTS FOR COPPER PIPE SHALL BE COPPER PLATED AT POINTS OF CONTACT WITH COPPER, TO BE FREE FROM ELECTROLYSIS.
21. VERTICAL PIPES SHALL BE SUPPORTED AT LEAST ONCE EACH STORY HEIGHT, RISER CLAMPS AND BASE OF RISER SHALL BE SO CONSTRUCTED AS TO ALLOW FOR PROPER PITCH AND EXPANSION OF PIPES.
22. THIS CONTRACTOR SHALL LABEL PIPING SYSTEMS WITH MANUFACTURED LABELS DESIGNATING THE PIPING SYSTEM USING AN APPROVED COLOR CODE.
23. THIS CONTRACTOR SHALL PRESSURE TEST ALL PLUMBING PIPING IN THE PRESENCE OF A MUNICIPAL PLUMBING INSPECTOR AS REQUIRED BY THE GOVERNING AUTHORITIES.
24. THIS CONTRACTOR SHALL DISINFECT ALL DOMESTIC WATER SUPPLY PIPING IN ACCORDANCE WITH THE BUILDING CODE AND AS DIRECTED BY THE WATER UTILITY.
25. THIS CONTRACTOR SHALL PROVIDE CLEAN OUTS ON SANITARY AND STORM PIPING RUNS, AT EVERY CHANGE IN DIRECTION, MAXIMUM OF 5'-0" ON CENTER IN STRAIGHT RUNS, AT THE END OF LINES, WITHIN 5'-0" OF EXITING THE BUILDING AND WHERE REQUIRED BY CODE. CONTRACTOR SHALL ANGLE CLEAN OUTS SO THEY OCCUR NEXT TO WALLS AND NOT IN TRAFFIC AREAS.
26. THIS CONTRACTOR SHALL PROVIDE AT EACH FIXTURE SUPPLY CONNECTION, BOTH HOT AND COLD WATER, AN AIR CHAMBER NOT LESS THAN 12 INCHES LONG, ONE SIZE LARGER THAN THE FIXTURE SUPPLY. PROVIDE AN AIR CHAMBER AT OTHER LOCATIONS NOT LESS THAN 18 INCHES LONG, ONE PIPE SIZE LARGER THAN PIPES ON WHICH THEY ARE INSTALLED.
27. THIS CONTRACTOR SHALL PROVIDE AN ELEVATED VACUUM BREAKER FOR EACH CONNECTION TO PLUMBING FIXTURE OR ITEM OF EQUIPMENT HAVING SUBMERGED INLET OR HOSE END.
28. HOT AND COLD WATER LINES SHALL HAVE STOPS INSTALLED AT THE SERVICE CONNECTION OF EACH FIXTURE AND PIECE OF EQUIPMENT TO ALLOW SHUTOFF WITHOUT DISTURBING OTHER FIXTURES OR EQUIPMENT.
29. THIS CONTRACTOR SHALL INCLUDE INCIDENTAL DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF THE INSTALLED SYSTEMS.
30. CONTRACTOR SHALL INSTALL ALL FLOOR DRAINS, AREA DRAINS OR TRENCH DRAINS AT LOW POINTS IN FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES AND EXACT LOCATIONS.
31. ANY QUESTIONABLE INFORMATION IN THE DESIGN DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH FABRICATION OR ERECTION OF PARTS AFFECTED. IF, IN THE OPINION OF THE CONTRACTOR, ANY ADDITIONAL DETAIL DRAWINGS ARE NECESSARY, CONTRACTOR SHALL PREPARE THEM AT HIS OWN EXPENSE, TOGETHER WITH THE BILL OF MATERIALS.
32. ANY EXISTING DOWNSPOUTS, SOIL, VENT, OR WATER PIPING FOUND TO BE IN DETERIORATED ( UNLESS SPECIFICALLY NOTED TO BE REPLACED) CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER WHO SHALL DETERMINE IF SAID PIPING SHOULD BE REPLACED AND TO WHAT EXTENT.

COMPLETION ITEM NO.  
NOT SPRINKLERED

VENTILATING SYMBOL LIST		
SYMBOL	DESCRIPTION	
	SUPPLY AIR DUCT (TOWARD)	
	SUPPLY AIR DUCT (AWAY)	
	RETURN OR OUTDOOR AIR DUCT (TOWARD)	
	RETURN OR OUTDOOR AIR DUCT (AWAY)	
	FIRST NUMBER IS SIDE SHOWN SECOND NUMBER IS SIDE NOT SHOWN ARROWS INDICATE DIRECTION OF FLOW	SUPPLY
		RETURN/EXHAUST
	TURNING VANES	
	MANUAL VOLUME DAMPER	
	BACKDRAFT DAMPER	
	MOTORIZED DAMPER	
	FIRE DAMPER / SMOKE DAMPER	
	FLEXIBLE DUCT CONNECTION	
	FLEXIBLE DUCT	
	ACCESS PANEL	
	INCLINED RISE (IN DIRECTION OF AIR FLOW)	
	INCLINED DROP (IN DIRECTION OF AIR FLOW)	
	SA	
	RA	
	OA	
	EA	
	P	
	ROOM TEMPERATURE SENSOR	
	ROOM TEMPERATURE SENSOR	
	HUMIDISTAT	
	THERMOSTAT	
	NEW CONNECTION TO EXISTING	

VENTILATING CONSTRUCTION NOTES

1. ALL DUCT WORK PENETRATIONS THRU FIRE OR SMOKE RATED WALLS MUST MAINTAIN THE RATING OF THE WALL. FIRE DAMPERS ARE REQD WHERE DUCTS PENETRATE WALLS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR 2 HOURS. FIRE DAMPERS USED FOR PROTECTION OF WALLS OR FLOORS W/ FIRE RESISTANCE RATINGS OF LESS THAN 3 HOURS SHALL HAVE A U.L. 1 1/2 HOUR FIRE PROTECTION RATING.
2. SEE ARCHITECTURAL SHEETS FOR LOCATION AND RATING OF FIRE AND SMOKE WALLS.
3. ALL SUPPLY AIR DIFFUSERS, RETURN AND EXHAUST GRILLES SHALL HAVE CONTROL DAMPERS IN THE DUCT RUNOUT. DIFFUSERS & GRILLES SHALL HAVE AN OPPOSED BLADE DAMPER LOCATED IN THE FACE OF THE DIFFUSER OR GRILLE.
4. REGARDLESS OF FLEX DUCT LENGTH SHOWN ON DRAWINGS, MAXIMUM LENGTH OF 48" AS SPECIFIED IN SPECIFICATION DIV. 23. SHALL NOT BE EXCEEDED. FLEX DUCT INSTALLATION SHALL BE AT TERMINAL ENDS ONLY. CONNECTIONS AT VAV BOX INLETS MUST BE SOLID HARD DUCT. THE DUCTWORK AT ANY FIRE AND/OR SMOKE DAMPER MUST BE HARD DUCTWORK, NOT FLEX DUCT.
5. CONVERT ROUND DUCT DIMENSIONS LISTED TO FLAT OVAL OR RECTANGULAR AS REQUIRED.
6. ALL EXPOSED DUCTWORK SHALL BE RIGID. NO FLEXIBLE DUCT IS ALLOWED.

DIFFUSER TAKE-OFF AND FLEX DUCT SCHEDULE	
CFM	SIZE
≤ 200	8"Ø
201 - 325	10"Ø
326 - 500	12"Ø
501 - 800	14"Ø
≥ 800	SEE DRAWINGS

LOW PRESSURE DUCT SCHEDULE	
MAX. CFM	DUCT SIZE
500	10/10
1000	14/12
1500	20/12
2000	24/12
2500	30/12
3000	36/12

ABBREVIATIONS:

TTBOS..... TIGHT TO BOTTOM OF STEEL  
RUS..... RISE INTO JOIST SPACE  
R..... RISE IN DIRECTION OF AIR FLOW  
D..... DROP IN DIRECTION OF AIR FLOW  
FFB..... FROM FLOOR BELOW  
TFB..... TO FLOOR BELOW  
FFA..... FROM FLOOR ABOVE  
TFA..... TO FLOOR ABOVE  
IPS..... INTO PLENUM SPACE

HEATING SYMBOL LIST	
SYMBOL	DESCRIPTION
	HPS HIGH PRESSURE STEAM SUPPLY PIPING
	MPS MEDIUM PRESSURE STEAM SUPPLY PIPING
	LPS LOW PRESSURE STEAM SUPPLY PIPING
	HPR HIGH PRESSURE STEAM RETURN PIPING
	MPR MEDIUM PRESSURE STEAM RETURN PIPING
	LPR LOW PRESSURE STEAM RETURN PIPING
	CHS CHILLED WATER SUPPLY
	CHR CHILLED WATER RETURN
	HWS HOT WATER SUPPLY
	HWR HOT WATER RETURN
	BWS BUILDING WATER SUPPLY
	BWR BUILDING WATER RETURN
	D DRAIN LINE
	BV BUTTERFLY VALVE
	GV GATE/BALL VALVE - AS NOTED
	CV CHECK VALVE
	CBV CALIBRATED BALANCE VALVE
	ATV AUTOMATIC TWO-WAY CONTROL VALVE (ELECTRIC)
	ATV AUTOMATIC THREE-WAY CONTROL VALVE (ELECTRIC)
	GV GLOBE VALVE
	BV BALL VALVE
	RV RELIEF VALVE
	T THERMOSTAT
	PA PIPE ANCHOR
	TM THERMOMETER
	ST STEAM TRAP
	PG PRESSURE GAUGE
	MAV MANUAL AIR VENT
	ETU ELBOW TURNED UP
	ETD ELBOW TURNED DOWN
	TTT TEE - TOP OUTLET
	TBT TEE - BOTTOM OUTLET
	SU SCREWED UNION
	FU FLANGED UNION
	PRV PRESSURE REDUCING VALVE
	R REDUCER
	STR STRAINER
	FPC FLEXIBLE PUMP OR PIPE CONNECTION
	IP INLINE PUMP
	HPS HIGH PRESSURE STEAM SUPPLY PIPING
	MPS MEDIUM PRESSURE STEAM SUPPLY PIPING
	LPS LOW PRESSURE STEAM SUPPLY PIPING
	HPR HIGH PRESSURE STEAM RETURN PIPING
	MPR MEDIUM PRESSURE STEAM RETURN PIPING
	LPR LOW PRESSURE STEAM RETURN PIPING
	CPD CONDENSATE PUMP DISCHARGE PIPING
	V VENT
	NCE NEW CONNECTION TO EXISTING

GENERAL DEMOLITION & NEW WORK NOTES:

- 1.) THIS CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL. CONTR IS ADVISED THAT ALL LOCATIONS ARE APPROXIMATE.
- 2.) AN ATTEMPT HAS BEEN MADE TO SHOW ALL PIPING, FIXTURES, DUCTWORK, AND OUTLETS. THIS CONTRACTOR SHALL VISIT THE SITE TO VERIFY COMPONENTS, LOCATIONS AND SIZES SHOWN OR NOT SHOWN. ALL COMPONENTS NEED TO BE REMOVED IN THE DEMOLITION AREA UNLESS NOTED ON THE DRAWINGS.
- 3.) IT IS MANDATORY THAT THE EXISTING BLDG. REMAIN IN CONTINUOUS & NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF THE EXISTING BLDG. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BLDG. SHALL BE KEPT ON CONTINUOUS OPERATION INCLUDING DOMESTIC WATER, SANITARY, STORM, STEAM, HEATING, HOT WATER, HVAC SUPPLY, RETURN & EXHAUST, ETC. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH PROJECT CONSTRUCTION, SHALL BE HELD TO, ARRANGED WITH THE OWNER THROUGH THE GENERAL CONTRACTOR, A MINIMUM OF TWO (2) WEEKS IN ADVANCE. TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
- 4.) THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTING, RELOCATING AND RECONNECTION OF EXISTING EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISHING, SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
- 5.) EXCEPT WHERE OTHERWISE SHOWN OR NOTED ON DRWG., "TO BE RETAINED, RELOCATED" OR HEREINAFTER NOTED, ALL EXISTING EQUIPMENT AND MATERIAL IN AREAS TO BE REMODELED/ALTERED SHALL BE REMOVED WHERE THEY INTERFERE WITH PROPOSED NEW CONSTRUCTION AND/OR INTERFERE WITH PROPOSED USAGE OF SPACE BY OWNER AS FOLLOWS:

(A) REMOVE ANY PIPES PROTRUDING ABOVE FINISHED FLOOR OR THROUGH WALL AND CAP AND FINISH OVER WITH MATERIAL TO MATCH EXISTING.

(B) REMOVE ALL FIXTURES, CARRIERS, SUPPLY & WASTE & VENT PIPING, STEAM, HEATING HOT WATER, HVAC SUPPLY, RETURN & EXHAUST AS NOTED, CAP AT NEAREST ACTIVE MAIN, SUPPLY & RETURN MAINS TO BE VALVED & CAPPED.

(C) IN REMODELED/ALTERED AREAS ANY PIPING OR DUCTWORK PASSING THROUGH THE REMODELED AREAS TO SERVE OR BEING SERVED FROM EXISTING ADJACENT, REMOTE, OR SURROUNDING AREA THAT ARE TO REMAIN SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED AREA.

(D) PENETRATIONS THROUGH EXISTING WALLS AND FLOORS FORMERLY OCCUPIED BY REMOVED PIPING SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION.
- 6.) THIS CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF ALTERATION/REMODELING WORK AND MORE SPECIFICALLY NOTE WHERE NEW PARTITIONING IS BEING INSTALLED, WHERE EXISTING PARTITIONING IS BEING REMOVED, WHERE CEILINGS ARE BEING REMOVED AND OR REPLACED, ETC.
- 7.) SEE SPECIFICATIONS & ARCHITECTURAL SHTS. FOR CONSTRUCTION PHASING REQUIREMENTS. DURING EACH PHASE, AS MUCH WORK AS POSSIBLE MUST BE PERFORMED WITHIN THE BOUNDARIES OF THAT PHASE.

ABBREVIATION LIST			
AFF	ABOVE FINISHED FLOOR	F	FARENHEIGHT
ARCH	ARCHITECT, ARCHITECTURAL	FBO	FURNISHED BY OTHERS
BFP	BACK FLOW PREVENTER	FCO	FLOOR CLEAN OUT
BLDG	BUILDING	FFA	FLOOR FROM ABOVE
BOP	BOTTOM OF PIPE	FFB	FLOOR FROM BELOW
CA	COMPRESSED AIR	FLEX	FLEXIBLE
CFH	CUBIC FEET PER HOUR	FLTR	FILTER
CFM	CUBIC FEET A MINUTE	FPM	FEET PER MINUTE
CI	CAST IRON	FPS	FEET PER SECOND
CLG	CEILING	FT	FOOT OR FEET
CMPR	COMPRESSED	FU	FIXTURE UNIT
CO	CLEAN OUT	GA	GAUGE
COND	CONDENSATE	GAL	GALLONS
CONT	CONTINUED	GALV	GALVANIZED
CONTR	CONTRACTOR	GC	GENERAL CONTRACTOR
CW	COLD WATER	GPH	GALLONS PER HOUR
		GPM	GALLONS PER MINUTE
		GW	GREASE WASTE
DEG/°	DEGREES	HB	HOSE BIB
DEPT	DEPARTMENT	HP	HORSEPOWER
DET	DETAIL	HTG	HEATING
DIA	DIAMETER	HTR	HEATER
DN	DOWN	HW	HOT WATER
DS	DOWNSPOUT	HWR	HOT WATER RETURN
DWG	DRAWING		
EA	EACH	IE	INVERT ELEVATION
EL	ELEVATION	ID	INSIDE DIAMETER
EQUIP	EQUIPMENT	IM	ICE MAKER
EWG	ELECTRIC WATER COOLER	IN	INCH
EXIST	EXISTING	INCL	INCLUDE
		INST	INSTALLATION
FCO	FLOOR CLEANOUT	IW	INDIRECT WASTE
LAV	LAVATORY	SC	SILCOCK
LBS	POUNDS	SH	SHOWER
		SA	SHOCK ABSORBER
		SAN	SANITARY
MATL	MATERIAL	SK	SINK
MAX	MAXIMUM	SLV	SLEEVE
MB	MOP BASIN	SPEC	SPECIFICATION
MECH	MECHANICAL	SQ FT	SQUARE FOOT
MED	MEDIUM	SS	SERVICE SINK
MFR	MANUFACTURER	SSD	SUBSOIL DRAINAGE
MIN	MINIMUM	SSTL	STAINLESS STEEL
MISC	MISCELLANEOUS	ST	STORM WATER
NC	NORMALLY CLOSED	TOP	TOP OF PIPE
NG	NATURAL GAS	TW	TEMPERED WATER
NIC	NOT IN CONTRACT	TYP	TYPICAL
NO	NORMALLY OPEN		
NO.	NUMBER	UN	UNLESS OTHERWISE NOTED
NTS	NOT TO SCALE	UP	UP (PENETRATES FLOOR SLAB)
N/A	NOT APPLICABLE	UR	URINAL
OD	OUTSIDE DIAMETER	V	VENT
OHD	OPEN HUB DRAIN	VAC	VACUUM
PLBG	PLUMBING	VB	VACUUM BREAKER
PRESS	PRESSURE	VTR	VENT THROUGH ROOF
PRV	PRESSURE REDUCING VALVE		
REQ	REQUIRE	W	WASTE
REV	REVISION	WI	WITH
RPM	REVOLUTIONS PER MINUTE	WC	WATER CLOSET
		WH	WALL HYDRANT
		WM	WASHING MACHINE
		W/O	WITHOUT
		WTR	WATER

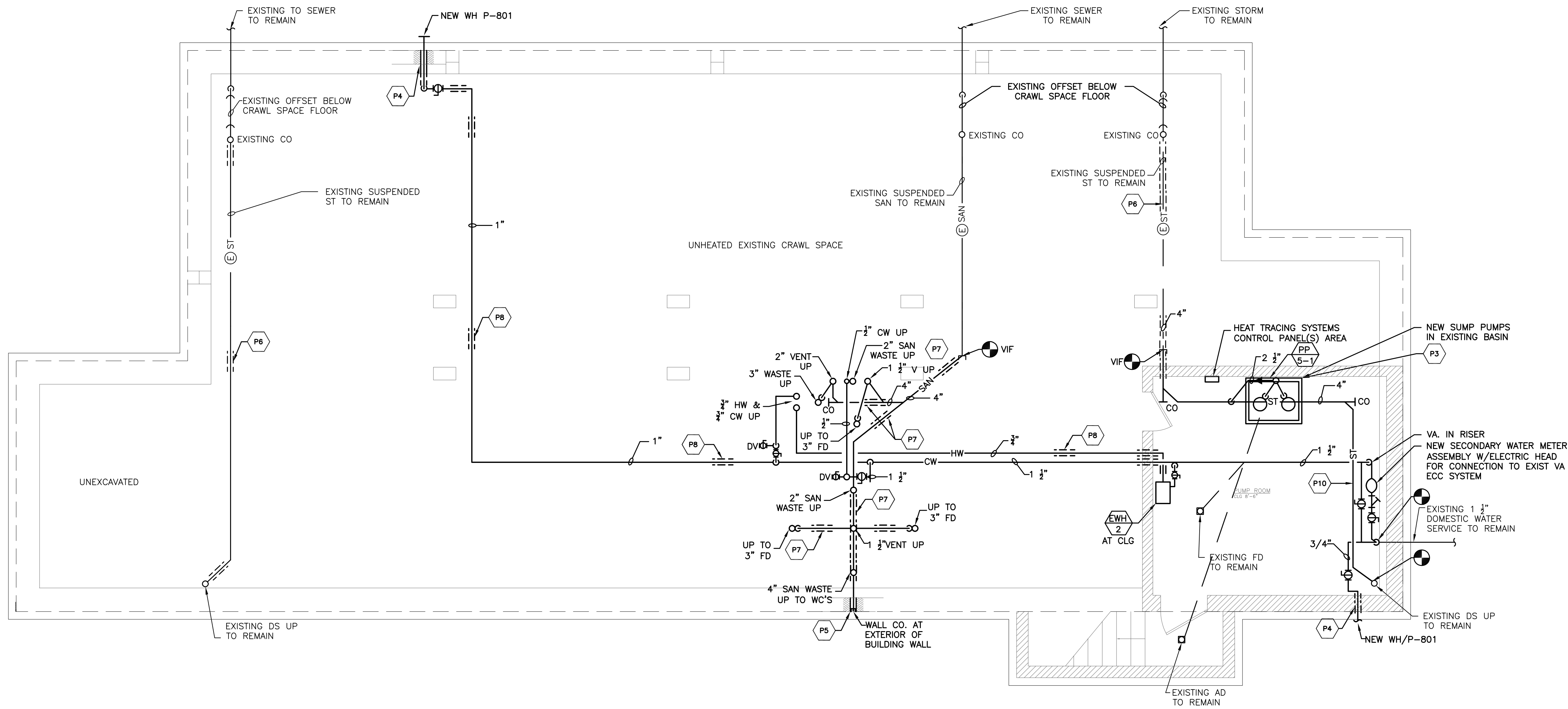
THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING IS GENERAL AND ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title <b>PLUMBING, MECHANICAL SYMBOLS, ABBREVIATIONS &amp; NOTES</b>		Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		Project Number 537-12-122		Office of Construction and Facilities Management 			
		<b>TENG</b> TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 TELEPHONE: 312/616-0000		Approved: Project Director		Location JESSE BROWN V.A.M.C.		Building Number 5					
ISSUED FOR SOLICITATION						Date FEBRUARY 13, 2013		Drawing Number 5-PM-001					
Revisions						Checked		Dwg. 6 of 16					
04/30/2013						Drawn							
Date													

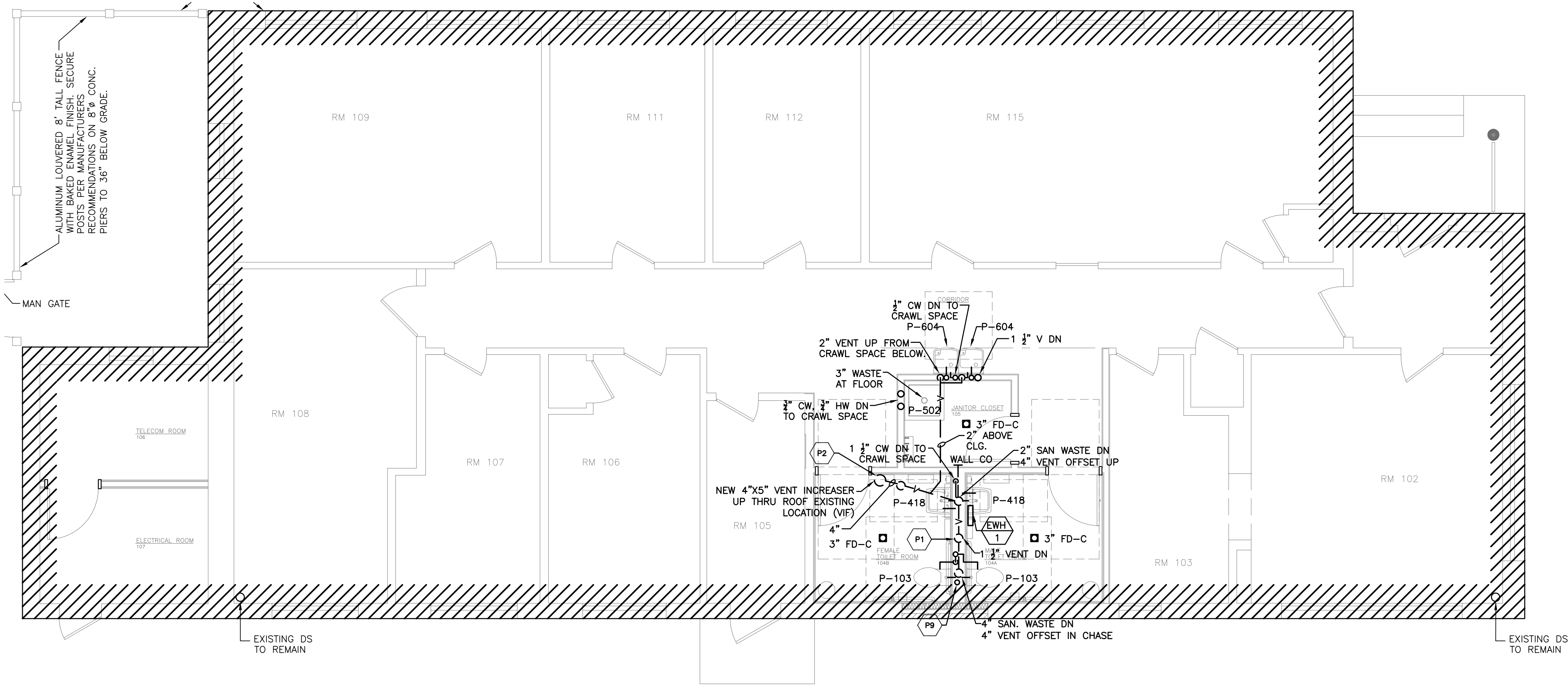
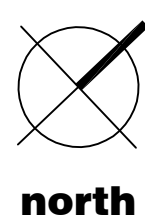




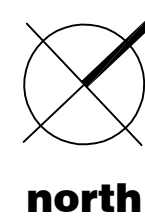




**1 PLUMBING NEW WORK PLAN - BASEMENT LEVEL**  
1/4"=1'-0"

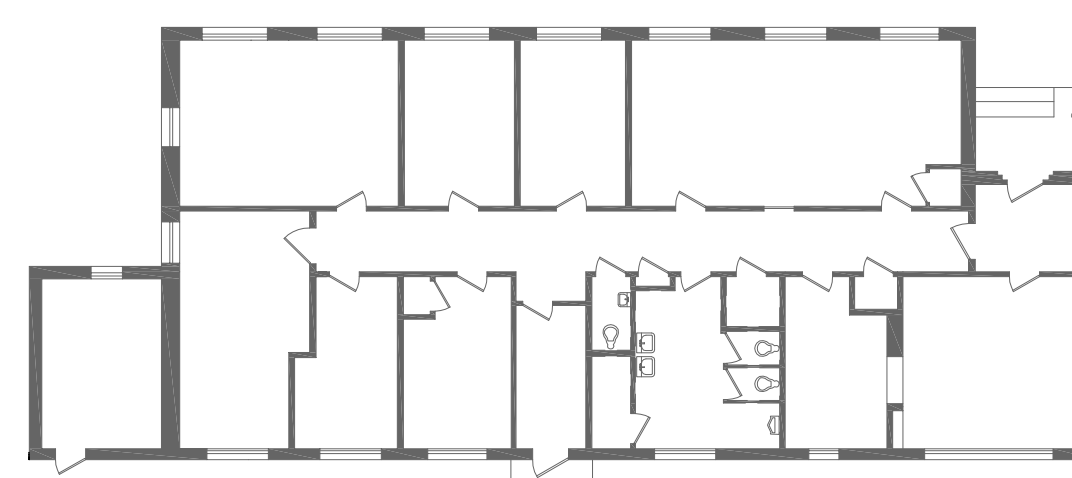


**2 PLUMBING NEW WORK PLAN - FIRST FLOOR LEVEL**  
1/4"=1'-0"

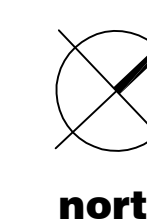


**PLUMBING NEW WORK NOTES:**

- P1 INSTALL NEW SANITARY WASTE, COLD WATER PIPING VERTICALLY THROUGH FLOOR WITH ALL HORIZONTAL WASTE, VENT AND INSULATED CW PIPING KEPT WITHIN DESIGNATED CHASE CONSTRUCTION.
- P2 EXTEND NEW VENT PIPING TO LOCATION OF EXISTING REMOVED VENT TERMINAL ROOF AND EXTEND NEW 4"x5" VENT INCREASER TO THROUGH ROOF WITH NEW FLASHING COMPATIBLE TO MEET EXISTING ROOFING MATERIAL.
- P3 INSTALL NEW SUMP PUMPS IN EXISTING FLOOR BASIN, INCLUDING ALL NEW CONTROLS, PANEL, WATER LEVEL SENSORS, BASIN COVER WITH ALL OPENINGS, DISCHARGE PIPING WITH CHECK VALVE, GATE VALVE AND FLEXIBLE PIPE CONNECTIONS WITH RECONNECTION TO OVER HEAD PIPING.
- P4 INSTALL NEW WALL HYDRANT ASSEMBLY IN EXISTING WALL CONSTRUCTION. PROVIDE ALL REQUIRED MODIFICATIONS TO EXISTING CONSTRUCTION AND SEAL ASSEMBLY WATER TIGHT.
- P5 INSTALL NEW SAN. WASTE CLEANOUT ASSEMBLY AS REQUIRED THROUGH EXISTING EXTERIOR WALL CONSTRUCTION, INCLUDING CORED HOLE, SEALING OPENING WATER TIGHT WITH INSTALLATION OF WALL CLEANOUT ACCESS BOX COVER ASSEMBLY.
- P6 VERIFY EXISTING PIPE SIZE, INSULATE AND HEAT TRACE SUSPENDED STORM PIPING, FITTINGS, ETC. IN UNHEATED CRAWL SPACE FROM VERTICAL DOWNSPOUT LEADER TO OFFSET DROP POINT INTO CRAWL SPACE FLOOR. PROVIDE ALL REQUIRED SYSTEM CONTROLS FOR AUTOMATIC OPERATION.
- P7 INSULATE AND HEAT TRACE ALL NEW AND EXISTING SAN. WASTE PIPING, INCLUDING TRAPS, ETC. WITHIN UNHEATED CRAWL SPACE TO A POINT WHERE EXISTING SAN. WASTE DROPS INTO CRAWL SPACE FLOOR. PROVIDE ALL REQUIRED SYSTEM CONTROLS FOR AUTOMATIC OPERATION. ALL POWER WIRING PROVIDED UNDER DIV. 26.
- P8 INSULATE AND HEAT TRACE ALL NEW COLD WATER (CW) AND HOT WATER (HW) PIPING, FITTING, ETC. INSULATED IN UNHEATED CRAWL SPACE. PROVIDE ALL REQUIRED SYSTEM CONTROLS FOR AUTOMATIC OPERATION. ALL POWER WIRING PROVIDED UNDER DIV. 26.
- P9 PROVIDE VERTICAL OFFSET TYPE WALL HUNG WATER CLOSET CHAIR CARRIER COMPACT TYPE FITTING (J.R. SMITH SERIES 0400) WITH NEW FLOOR OPENING AS REQUIRED TO MEET EXISTING CONSTRUCTION CONDITIONS.
- P10 PROVIDE NEW SUSPENDED STORM PIPING OF SIZE TO MATCH EXISTING FROM EXISTING VERTICAL DOWNSPOUT TO POINT OF RECONNECTION WITHIN UNHEATED CRAWL SPACE. SEAL PIPE PENETRATION THROUGH PUMP ROOM WALL CONSTRUCTION.



KEY PLAN



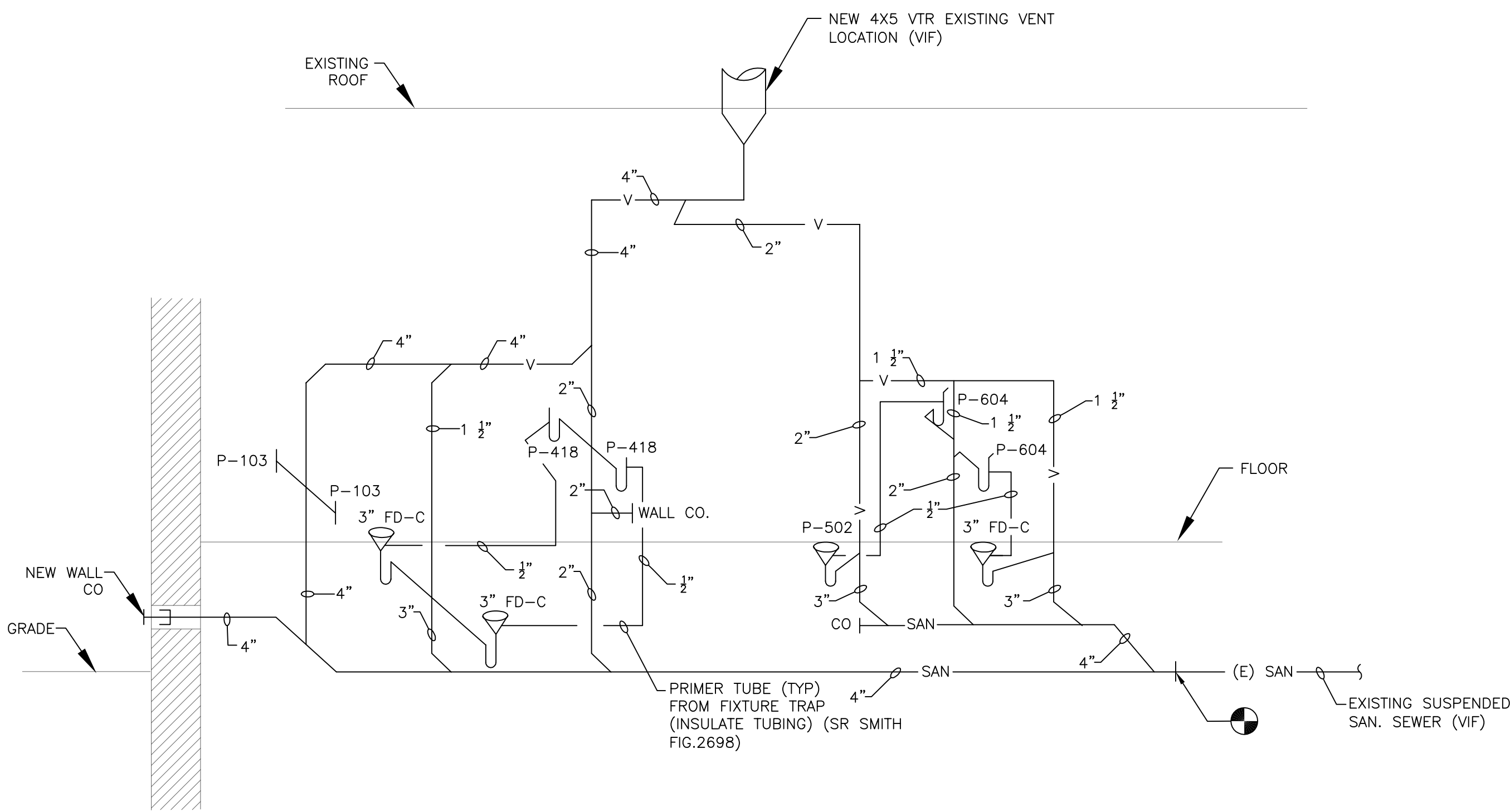
one quarter inch = one foot  
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COMPLETION ITEM NO. \_\_\_\_\_  
NOT SPRINKLERED

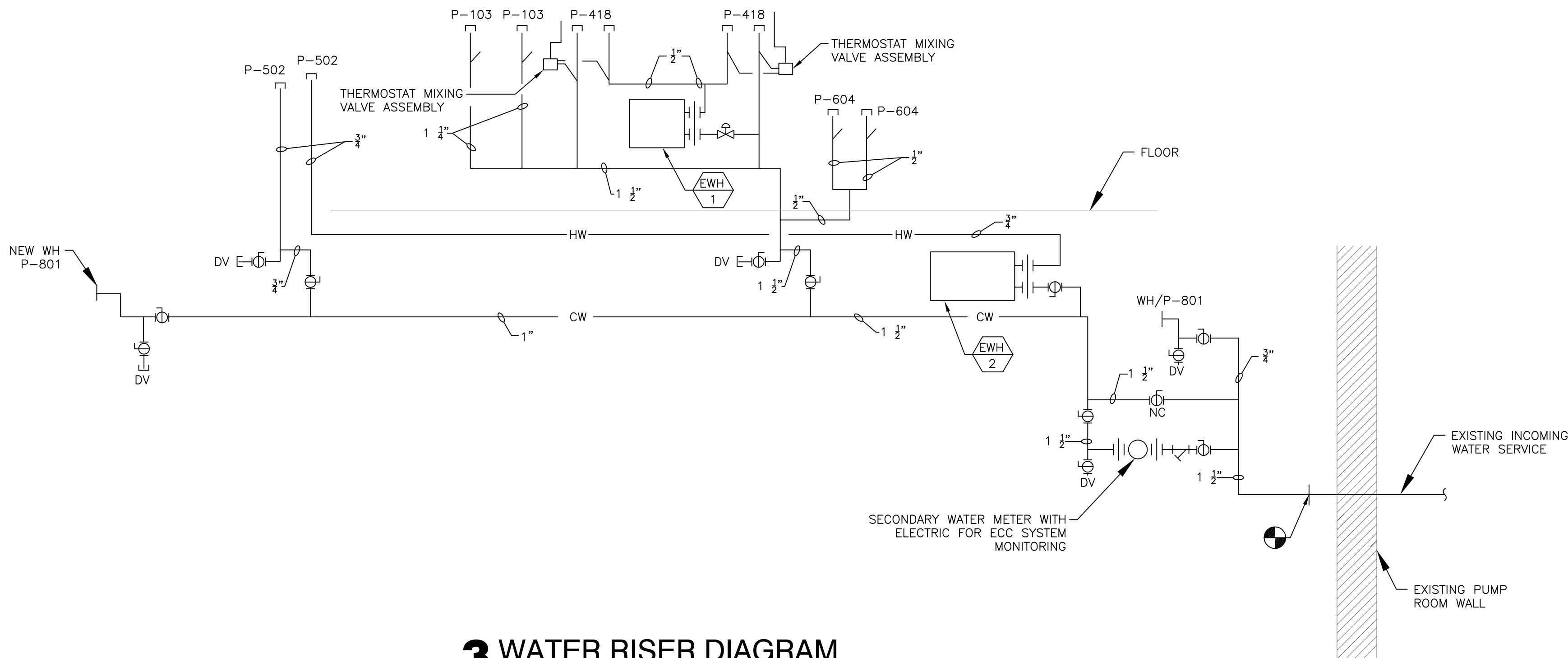
		CONSULTANTS:		ARCHITECT/ENGINEERS:	<div>TENG</div> <div>TENG &amp; ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 TELEPHONE: 312/616-0000</div>	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management
						PLUMBING FLOOR PLANS		ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		537-12-122		
										Building Number 5		
						Approved: Project Director		Location JESSE BROWN V.A.M.C.		Drawing Number 5-PL-101		
								Date FEBRUARY 13, 2013		Checked		
										Drawn		
										Dwg. 8 of 16		
ISSUED FOR SOLICITATION		04/30/2013										
Revisions		Date										

Department of  
Veterans Affairs

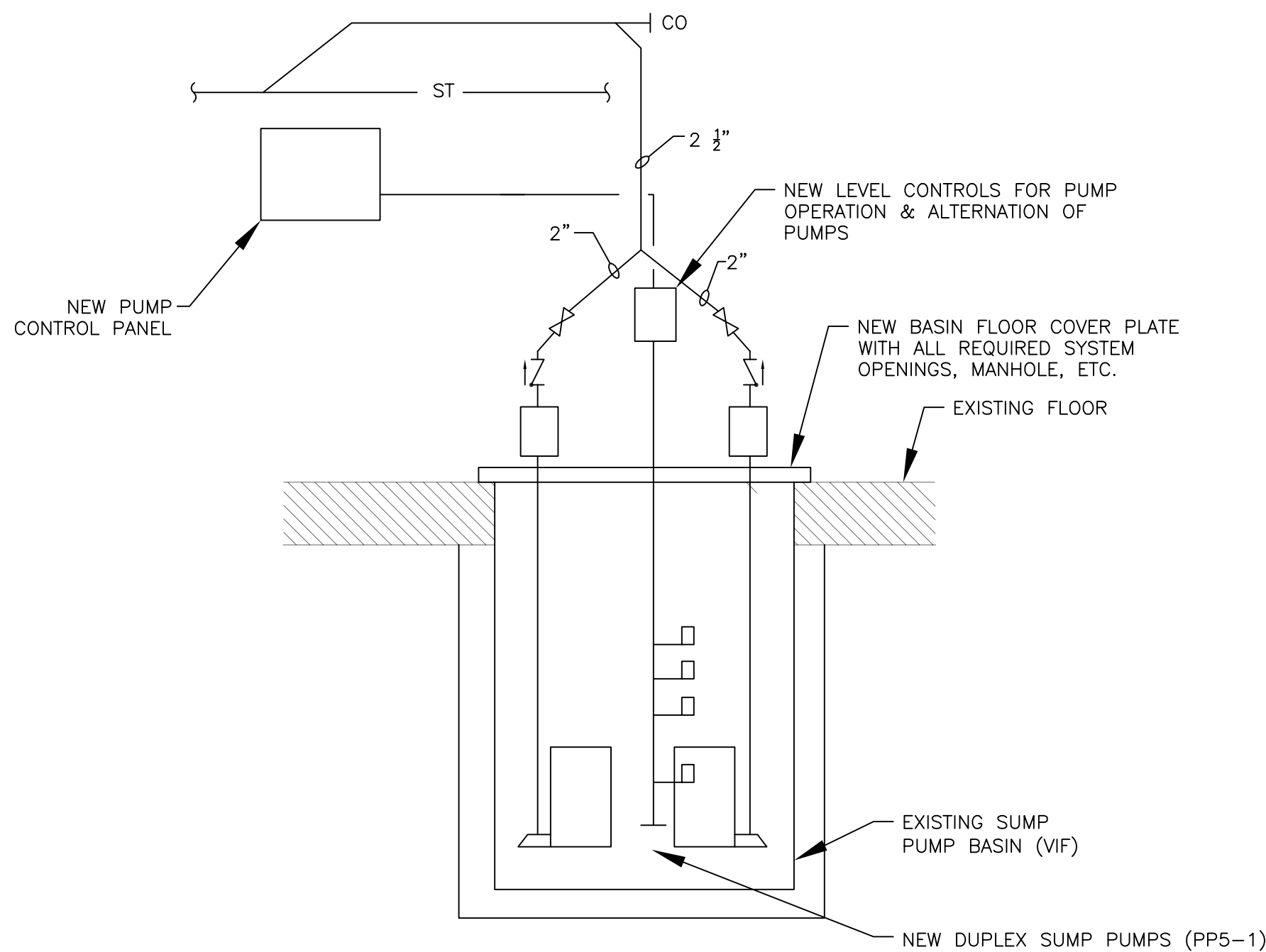
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one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
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**1 SANITARY AND VENT RISER DIAGRAM**  
NOT TO SCALE



**3 WATER RISER DIAGRAM**  
NOT TO SCALE



**2 SUMP PUMP DIAGRAM**  
NOT TO SCALE

WATER DISTRIBUTION PIPING		
MATERIAL	STANDARD	
COPPER OR COPPER ALLOY TUBING (TYPE L)	ASTM 75; ASTM B88; ASTM B251; ASME B16.18;	
WITH PRESSURE FITTINGS	ASME B16.22; ASTM B32; MSS SP-69	

ABOVE GROUND SANITARY, STORM, DRAINAGE AND VENT PIPING		
MATERIAL	STANDARD	
CAST IRON SOIL PIPE, NO HUB	CISPI 301; CISPI 301	
COPPER OR COPPER ALLOY TUBING (TYPE M)	ASTM 75; ASTM B 88; ASME B 16.23; ASME B16.29	

FIXTURE CONNECTION SCHEDULE							
ITEM #	DESCRIPTION	WASTE	TRAP	VENT	CW	HW	REMARKS
P-103	WALL HUNG WATER CLOSET, ELONGATED BOWL, WHITE WITH HANDS FREE FLUSH VALVE	4"	4"	2"	1"	-	REFER TO FIXTURE SPECIFICATIONS FOR REQUIREMENTS REFER TO ARCH. ELEVATIONS FOR ROOM MOUNTING HEIGHT
P-418	WALL HUNG LAV WITH HANDS FREE FAUCET OPERATION	2"	1-1/4"	2"	1/2"	1/2"	REFER TO FIXTURE SPECIFICATIONS FOR REQUIREMENTS REFER TO ARCH. ELEVATIONS FOR ROOM MOUNTING HEIGHT NOTE 1.2
P-502	FLOOR MOUNTED SERVICE SINK/NOP RECEPTOR WITH MANUAL FAUCET TRIM AND VACUUM BREAKER	3"	3"	2"	1/2"	1/2"	REFER TO FIXTURE SPECIFICATIONS FOR REQUIREMENTS
P-801	EXTERIOR WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, 3/4" NPT HOSE END	-	-	-	3/4"	-	REFER TO FIXTURE SPECIFICATIONS FOR REQUIREMENTS
P-604	WALL MOUNTED ELECTRIC WATER COOLER ASSEMBLY WITH WALL CHAIR CARRIER	1-1/2"	1-1/4"	1-1/2"	1/2"	-	REFER TO FIXTURE SPECIFICATIONS FOR REQUIREMENTS REFER TO ARCH. ELEVATIONS FOR ROOM MOUNTING HEIGHT
FD-C	FLOOR DRAIN	3"	3"	1-1/2"	-	-	REFER TO FIXTURE SPECIFICATIONS FOR REQUIREMENTS NOTE 3

NOTES:  
1. PROVIDE UNDER THE LAV ELECTRIC INCLINE HW HEATER ASSEMBLY  
2. PROVIDE UNDER THE LAV WASTE, WATER HANDICAPPED PIPING PROTECTION ENCLOSURE.  
3. FLOOR DRAIN PROVIDED WITH MANUAL/ AUTOMATIC DRAINING CONNECT FOR TRAP PRIMER PIPING SYSTEM.

SUMP PUMP SCHEDULE										
QUANTITY	PUMP TAG	LOCATION	DESCRIPTION	GPM EACH	TDH FEET	MOTOR			DESIGN BASIS MANUFACTURER & MODEL	REMARKS
						V/PHz	HP	RPM		
1	PP5-1	PUMP ROOM	DUPLEX SUBMERSIBLE WASTE WATER PUMPS, 2" NPT DISCHARGE	(2) 25	25	460/3/60	(2) 1/2"	1750	WELL PUMP CO MODEL 1410	1,2,3,4

NOTES:  
1. CAST IRON CONSTRUCTION, STAINLESS STEEL HARDWARE, STAINLESS LIFTING CABLE, SEMI-OPEN IMPELLER.  
2. DUPLEX OPERATION NEMA-4 CENTRAL PANEL, UL LISTED, MODEL 8101E WITH ALL PERTINENT DEVICES, LIGHTS, RELAYS, HOUR METER, CONTROLS/STARTERS/DISC SWITCH, CONTROL TRANSFORMERS, ETC FOR PRESSURE DIAPHRAM CONTROLS.  
3. NEW FLOOR MOUNTED BASIN ENCLOSURE PLATE TO FIT EXISTING BASIN SIZE WITH MANHOLE, PUMP DISCHARGE OPENING AND CONTROL SWITCH CORDS AND PERTINENT DEVICES FOR INTERFACING WITH TCIECC MONITORING SYSTEM.  
4. PROVIDE MODEL 8220 PRESSURE DIAPHRAM FOR DUPLEX OPERATION FOR OFF/STOP, LEAD/START, LAG/STANDBY, HIGH WATER ALARM.

DOMESTIC WATER HEATER SCHEDULE - ELECTRIC											
QUANTITY	TAG	HEATER TYPE	LOCATION	STORAGE (GALLONS)	TEMP. RISE RECOVERY (GPM @ Deg F)	BTU/HR	KW	ELECTRICAL POWER	SYSTEM TEMPERATURE	DESING BASIS MANUFACTURER & MODEL	REMARKS
1	EW-1	INLINE INSTANT-TEMP LOW FLOW	TOILET ROOM 104A	INSTANTANEOUS	54 F	-	8	208 V/ 1 PH	104 F	CHRONOMITE E-90FLP208	1,2
1	EW-2	INLINE INSTANT FLOW MICRO STANDARD FLOW	BASEMENT PUMP ROOM	INSTANTANEOUS	57 F	-	8.3	208 V/ 1 PH	120 F	CHRONOMITE M-50208	3

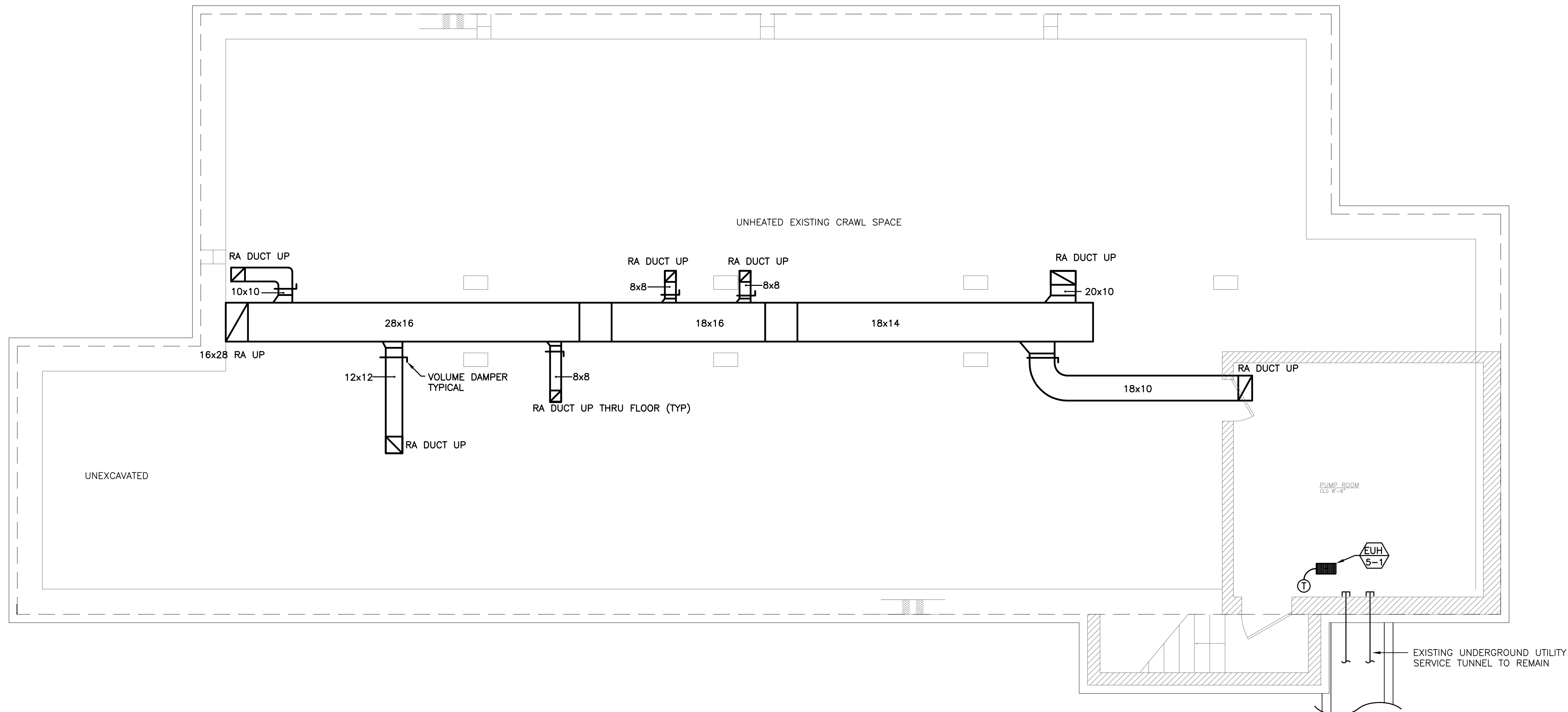
NOTES:  
1. FACTORY PRESET, LOW FLOW AT 0.5 GPM, SATIN STAINLESS STEEL, 40 AMP BREAKER AMPS, UL LISTED.  
2. 2 LAVATORY BACK TO BACK INSTALLATION.  
3. 1.0 GPM FLO RATE, UL LISTED.

COMPLETION ITEM NO. \_\_\_\_\_  
NOT SPRINKLERED

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title <b>PLUMBING SCHEDULES AND DETAILS</b>		Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		Project Number 537-12-122		Office of Construction and Facilities Management  Department of Veterans Affairs	
				Approved: Project Director		Location JESSE BROWN V.A.M.C.		Building Number 5			
						Date FEBRUARY 13, 2013		Drawing Number <b>5-PL-102</b>			
						Checked		Dwg. 9 of 16			
ISSUED FOR SOLICITATION Revisions		04/30/2013 Date		TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 TELEPHONE: 312/616-0000							



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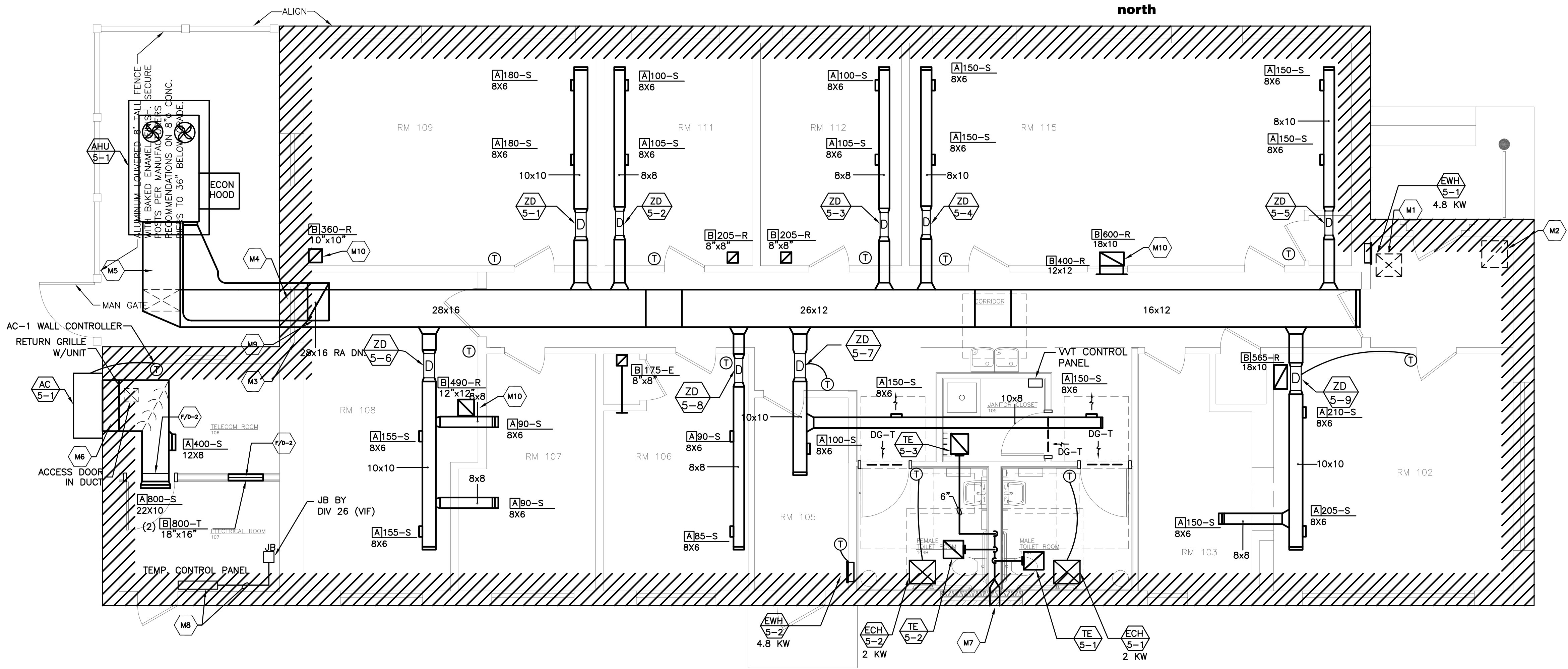


HVAC NEWWORK NOTES:

- M1 REPAIR/PATCH FLOOR OPENING AT REMOVED SUPPLY AIR DUCTWORK OF MATCHING MATERIALS AND SHALL BE REPLACED CONTIGUOUS TO ADJACENT FLOOR SURFACE.
- M2 REPAIR/PATCH FLOOR OPENING AT REMOVAL RETURN AIR DUCTWORK OF MATCHING MATERIALS AND SHALL BE REPLACED CONTIGUOUS TO ADJACENT FLOOR SURFACE.
- M3 REMOVE EXISTING WINDOW FOR INSTALLATION OF NEW INSULATED SUPPLY AND RETURN AIR DUCTWORK. EXPAND OPENING AS REQUIRED FOR DUCTWORK INSTALLATION. REPLACE/PATCH REMAINING WALL OPENING AS REQUIRED TO MATCH EXISTING MATERIALS AND SHALL BE CONTIGUOUS TO ADJACENT WALL SURFACES.
- M4 EXTEND NEW SUPPLY AND RETURN AIR DUCTWORK THROUGH NEW SLEEVED WALL OPENINGS. PROVIDE WEATHER TIGHT INSTALLATION WITH EXTERIOR FLANGES (4 SIDES) WITH CAULKING/SEALANT TO FINISHED WALL SURFACES.
- M5 EXTERNALLY INSULATE SUPPLY AND RETURN AIR DUCTWORK (REFER TO SPECIFICATION SECTION) WITH WEATHER PROOF EXTERIOR FINISHING JACKETS/COVERING. INSULATION SHALL EXTEND THROUGH NEW WALL SLEEVES.
- M6 CUT NEW SUPPLY AND RETURN AIR OPENING IN EXISTING WALL CONSTRUCTION FOR NEW WALL MOUNTED AC UNIT AND EXTEND WALL SLEEVES THROUGH OPENING TO FIT UNIT CONNECTION SIZES AND SEAL/CAULK UNIT WATER TIGHT.
- M7 INSTALL NEW TOILET EXHAUST VENT MODULES IN NEW CONSTRUCTION. STACK UNITS WITH INDIVIDUAL PLENUMS WITH RIGID DUCTWORK CONNECTION EXTEND BACK TO EACH RESPECTIVE CEILING FAN. UNIT INSTALLATION SHALL BE SEALED/CAULKED WATER TIGHT.
- M8 NEW TEMPERATURE CONTROL PANEL. EXTEND NEW CONTROLS TO NEW EQUIPMENT AND INTERFACING WITH EXISTING ECC (JOHNSON CONTROLS, METASYS) SYSTEM LOCATED IN EXISTING BUILDING LOCATION. VERIFY IN THE FIELD.
- 1. EXTEND AND CONNECT CABLING TO THE POINT IN BUILDING 5 PROVIDED UNDER DIV 26.  
2. DIVISION 26 CONTRACTOR TO PROVIDE CONDUIT AND AND CABLING (CAT 5) FROM BUILDING 5 TO BASEMENT OF BUILDING 40.  
3. TC CONTRACTOR SHALL PROVIDE EXTENSION FROM BUILDING 40 TERMINATION POINT AND EXTEND TO EXISTING ECC LOCATION, PROVIDING FOR ALL REQUIRED UPDATES FOR BUILDING 5 REQUIREMENTS.
- M9 CROSS CONNECT SUPPLY AND RETURN AIR BY-PASS DUCT FOR SYSTEM VVT OPERATION. PROVIDE ALL SYSTEM COMPONENTS FOR COMPLETE OPERATION PER SYSTEM MANUFACTURER'S REQUIREMENTS.
- M10 TYPICAL: EXTEND DUCTWORK UP TO 7'-6" ABOVE FINISHED FLOOR. LOCATE EXHAUST REGISTER AT TOP OF DUCT ORIENTATED FACING ROOM.

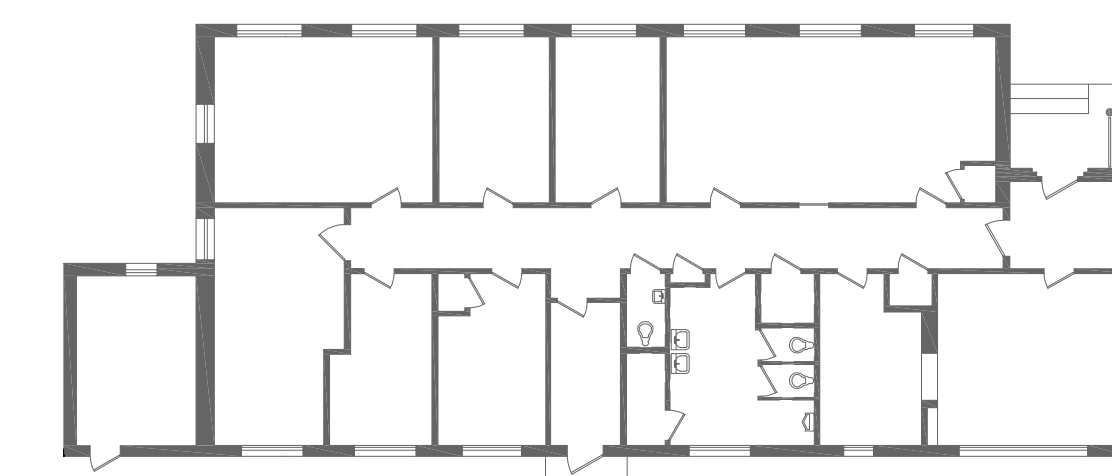
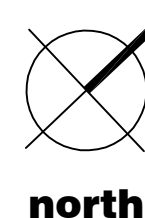
1 HVAC NEW WORK PLAN - BASEMENT LEVEL

1/4"=1'-0"

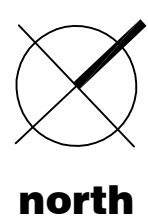


2 HVAC NEW WORK PLAN - FIRST FLOOR LEVEL

1/4"=1'-0"



KEY PLAN



one quarter inch = one foot

COMPLETION ITEM NO. \_\_\_\_\_  
NOT SPRINKLERED

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title <b>MECHANICAL FLOOR PLANS</b>	Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS	Project Number 537-12-122	Office of Construction and Facilities Management	
				Approved: Project Director	Location JESSE BROWN V.A.M.C.	Building Number 5		
ISSUED FOR SOLICITATION		TENG				Drawing Number <b>5-MH-101</b>	Department of Veterans Affairs	
Revisions		TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 TELEPHONE: 312/616-0000				Date FEBRUARY 13, 2013		
Date						Checked	Dwg 10 of 16	
						Drawn		

ELECTRIC UNIT HEATER SCHEDULE											
TAG	LOCATION	FAN/MOTOR DATA					ELECTRICAL DATA			DESING BASIS MANUFACTURER AND MODEL	REMARKS
		KW	CFM	AMP	RPM	WEIGHT LBS.	V	PH	FLA		
EWH 5-1	SEE PLAN	4.8	300	11.6	-	-	208/240	3	-	QMARK AWH-45043	1.3
EWHS-2	SEE PLAN	4.8	300	11.6	-	-	208/240	3	-	QMARK AWH-45043	1.3
EUHS-1	SEE PLAN	5.0	350	18	-	27	208/240	3	-	Q MARK MUH-05-21	2
ECHS-1	SEE PLAN	2.0	-	8.3	-	-	208/240	1	-	MARLEY F-2004	4
ECHS-2	SEE PLAN	2.0	-	8.3	-	-	208/240	1	-	MARLEY F-2004	4

NOTES:

1. FURNISH WITH TRIM KIT, ARCHITECTURAL STEEL GRILLES, INTEGRAL 24 VOLT THERMOSTAT & CONTROLS, FUSED DISCONNECT SWITCH, CHOICE OF COLOR PER ARCHITECT.
2. FURNISH WITH UNIVERSAL WALL & CEILING BRACKET & CONTROLS, 24 VOLT TRANSFORMER & CONTROLS, 24 VOLTS REMOTE WALL MOUNTED THERMOSTAT, DISCONNECT SWITCH
3. FURNISH WITH RECESS MOUNTING ENCLOSURE.
4. MOUNT ON THE CEILING.

ZONE DAMPER/ELECTRIC DUCT HEATER SCHEDULE								
TAG	MAX CFM	MIN CFM	SIZE	SAT	KW ELEC	STAGE	VOLTAGE	DESIGN BASIS MANUFACTURER AND MODEL
ZD-5-1	360	108	8"	55	6.0	3	460/3	CARRIER 33ZCDR08
ZD-5-2	205	62	6"	55	3.6	2	460/3	CARRIER 33ZCDR06
ZD-5-3	205	62	6"	55	3.6	2	460/3	CARRIER 33ZCDR06
ZD-5-4	300	90	8	55	6.2	3	460/3	CARRIER 33ZCDR08
ZD-5-5	300	90	8	55	6.2	3	460/3	CARRIER 33ZCDR08
ZD-5-6	490	147	10	55	8.2	4	460/3	CARRIER 33ZCDR10
ZD-5-7	400	120	8	55	6.8	3	460/3	CARRIER 33ZCDR08
ZD-5-8	175	53	6"	55	3.0	2	460/3	CARRIER 33ZCDR06
ZD-5-9	565	170	10	55	9.2	4	460/3	CARRIER 33ZCDR10

1. ELEC

1. ELECTRIC COIL SHALL BE COODINATED WITH ZONE DAMPER UNIT WITH ALL STEP CONTROLLER FOR STAGES INDICATED
2. COIL SHALL HAVE AIR FLOW SWITCH, CONTROL PANEL, TRANSFORMERS AND DISCONNECT SWITCH.
3. THERMOSTAT SHALL BE COMPITIBLE FOR BOTH VVT DAMPER AND ELECTRIC COIL.

DIFFUSER AND REGISTER SCHEDULE											
TAG	SERVICE	TYPE			MODULE SIZE (IN)	NECK SIZE	O.B.D.	MATERIAL	FINISH	MANUFACTURER AND MODEL DESIGN BASIS	REMARKS
		LINEAR	LAY-IN	REGISTER							
A	SUPPLY	-	-	-	-	SEE PLAN	Y	ALUMINUM	-	TITUS 272-FS	1
B	RETURN	-	-	-	-	SEE PLAN	Y	ALUMINUM	-	TITUS 350FL	

NOTES:

1. PROVIDE VOLUME CONTROL DAMPER IN EACH GRILLE/DIFFUSER.

UNIT NO.	LOCATION	DESCRIPTION	CFM STANDARD AIR	S.P. (IN. WG)	TYPE	FAN RPM	DRIVE	VOLTS/ @ 60 HZ	WATT	MOTOR RPM	FULL LOAD AMPS	MOTOR STARTER Y/N	DISC. SWITCH Y/N	PWIRED Y/N	INTER-LOCKED WITH	REMOTE CONTROL DEVICES	DESIGN BASIS MANUFACTURER & MODEL	REMARKS
TE5-1	SEE PLAN	CEILING	100	0.25	CEN.	950	DIRECT	115	80	-	1.14	Y	Y	Y			GREENHECK SP-B110	1
TE5-2	SEE PLAN	CEILING	100	0.25	CEN.	950	DIRECT	115	80	-	1.14	Y	Y	Y			GREENHECK SP-B110	1
TE5-3	SEE PLAN	CEILING	75	0.25	CEN.	700	DIRECT	115	50	-	0.65	Y	Y	Y			GREENHECK SP-B90	1

## NOTES

1. CEILING MOUNTED FAN. FURNISH WITH INTEGRAL GRILLE, BACK DRAFT DAMPER AND WALL SWITCH.
2. FAN SHALL INTERCONNECTED TO OPERATE WITH ROOM LIGHT SWITCH/TIMER AS PROVIDED UNDER DIV 26.

SINGLE PACKAGED AIR CONDITIONER HEAT PUMP SCHEDULE																				
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIR FLOW	MIN. OUTSIDE AIR FLOW	EXT. STATIC PRESSURE	COOLING CAPACITY				HEATING CAPACITY			ELECTRICAL DATA				OPER. WEIGHT	DESIGN BASIS MANUFACTURER AND MODEL	REMARKS
							MIN. TOTAL CAPACITY	MIN. SENS CAPACITY	MIN EER	EAT		MIN. HEATING CAPACITY	EAT	LAT						
										DB	WB									
										DEG. F	DEG. F									
CFM	CFM	IN	MBH	MBH				KW	DEG. F	DEG. F	MCA	MAX FUSE SIZE	PHASE	VOLT	LBS					
AC5-1	OUTDOOR	BLDG 5	WALL HUNG	1,200	0	0.250	36	26	11.2	80.00	67.00	6.0	-	-	19.1	20.0	3	460	MARVAIR HVPA 36 HPD	1.2,3,4

**NOTES:**

1. PROVIDE AIR ECONOMIZER.
2. PROVIDE MERV 11 (60% EFFICIENT), 2" THICK THROW AWAY FILTER.
3. UNIT WITH PROGRAMMABLE CONTROLLER, DIGITAL, 7 DAY - COMSTAT-4 FOR ECC INTERFACING, ALUMINUM RETURN GRILLE, STARTERS, CONTROLS, PREWIRED FOR AUTOMATIC OPERATION
4. SINGLE POINT ELECTRICAL , KWV HEATER.

PACKAGED AIR HANDLING UNIT SCHEDULE																																												
TAG	LOCATION	SERVING	CAV	VAV	OUTSIDE AIR		FAN SECTION		HEATING SECTION			COOLING SECTION										VOLT/ PH	@60 HZ	BHP	HP	MOTOR RPM	MCA	MOCp	FLA	LRA	MOTOR STARTER	DISC. SWITCH	PRE-WIRED	INTER-LOCKED WITH	REMOTE CONTROL DEVICES	DESIGN BASIS MANUFACTURER AND MODEL	REMARKS							
					MIN.	MAX.	CFM	TOTAL ESP (IN.)	EAT °F	LAT °F	CAP MBH	ENT. AIR		LVG. AIR		GPM	EWT °F	LWT °F	MAX APD (IN)	MAX WATER P.D. (F.T.)	CAP MBH																	SENSIBLE BHP	SQ. FT.	VEL. FPM	ROWS	TYPE		
AHU-5-1	Outdoor	First floor	x	-	450 CFM	3000 CFM	3000	1.2	54	70	52.1	78	WB	60	DB	55	-	-	-	-	-	-	90.1	68.1	-	-	4/15 FPI	DX	460/3	1.39	2.8	830	46.7	50	45	149	Y	Y	Y	-	-	-	CARRIER 50HQD08	1,2,3,4

## NOTES

1. PROVIDE 24" HIGH ROOF CURB FOR INSTALLATION ON CONCRETE PAD.
2. UNIT SHALL HAVE PURCHASED INTEGRAL CONVENIENCE OUTLET, 2 REFRIGERATION CIRCUITS, 2 SCROLL COMPRESSORS, 50/100 CAPACITY, HIGH STATIC MOTOR, 2. MERV 11 FILTERS
3. CONTROL PANEL SHALL HAVE BACNET COMPATIBLE FOR CONNECTIONS AND EXTENSION TO EXISTING ECC SYSTEM BY TEMPERATURE CONTROL CONTRACTOR.
4. SINGLE POINT ELECTRICAL CONNECTION, RA AND SMO SMOKE DETECTOR, CO2 SENSOR.

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title <b>MECHANICAL SCHEDULES AND DETAILS</b>		Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		Project Number 537-12-122		Office of Construction and Facilities Management	
						<div>TENG</div> <div>TENG &amp; ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE., CHICAGO, IL 60601 TELEPHONE: 312/616-0000</div>				Building Number 5		Drawing Number <b>5-MH-102</b>			
ISSUED FOR SOLICITATION		04/30/2013						Approved: Project Director		Location JESSE BROWN V.A.M.C.		Drawing Number <b>5-MH-102</b>			
Revisions:		Date						Date FEBRUARY 13, 2013		Checked		Drawn		Dwg. 11 of 16	
														Department of Veterans Affairs	

VA FORM 08-6231


[illegible]

NOTE:

1. CONTRACTOR SHALL VERIFY AND CONFIRM EXISTING ECC SYSTEM AT EXISTING BUILDING LOCATION AND SYSTEM FOR BUILDING 5 SHALL BE COMPATIBLE WITH ALL UPGRADES PROVIDED TO EXISTING ECC SYSTEM

ELECTRICAL DATA								OPER. WEIGHT	DESIGN BASIS MANUFACTURER AND MODEL	REMARKS
MCA	MAX FUSE SIZE	PHASE	VOLT	LBS						
19.1	20.0	3	460		MARVAIR HVPA 36 HPD	1.2.3.4				


E																
ROWS	TYPE	VOLT/PH @60 HZ	BHP	HP	MOTOR RPM	MCA	MOCP	FLA	LRA	MOTOR STARTER Y/N	DISC. SWITCH Y/N	PRE- WIRED Y/N	INTER- LOCKED WITH DEVICES	REMOTE CONTROL Y/N	DESIGN BASIS MANUFACTURER AND MODEL	REMARKS
4/15 FPI	DX	460/3	1.39	2.8	830	46.7	50	45	149	Y	Y	Y	-	-	CARRIER 50HQD08	1,2,3,4

ECT/ENGINEERS:  <b>ECT/ENGINEERS</b>  ASSOCIATES, INC. ARCHITECTS/PLANNERS 1000 N. MICHIGAN AVE., CHICAGO, IL 60601 PHONE: 312/616-0000	Drawing Title <b>MECHANICAL SCHEDULES AND DETAILS</b>	Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		Project Number 537-12-122	Office of Construction and Facilities Management
	Approved Project Director	Location JESSE BROWN V.A.M.C.		Building Number 5	
		Date FEBRUARY 13, 2013	Checked	Drawn	 Department of Veterans Affairs

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COMPLETION ITEM NO. \_\_\_\_\_  
NOT SPRINKLERED

Office of  
Construction  
and Facilities  
Management

 Department of  
Veterans Affairs

 Department of  
Veterans Affairs



 **COMcheck Software Version 3.9.1**  
**Interior Lighting Compliance**  
**Certificate**

## Section 1: Project Information

## Section 1: Project Information

Construction Site: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_ Designer/Contractor: \_\_\_\_\_

## Section 2: Interior Lighting and Power Calculation

Fixture ID : Description	A Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<b>RESTROOMS ( Hospital 120 sq.ft.)</b>					
Linear Fluorescent 1 : 24" T8 17W / Electronic		2	2	53	106
				Total Proposed Watts =	106

## Section 4: Requirements Checklist

**Lighting Wattage:**

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts

<b>Allowed Watts</b>	<b>Proposed Watts</b>	<b>Complies</b>
144	106	Passes

### Controls, Switching, and Wiring:

- ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
- ☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

  - ☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
  - ☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.
- ☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

  - ☐ Areas designated as security or emergency areas that must be continuously illuminated.
  - ☐ Lighting in stairways or corridors that are elements of the means of egress.
- ☐ 5. Master switch at entry to hotel/motel guest room.
- ☐ 6. Individual dwelling units separately metered.

Project Title: Jesse Brown VA Building 5  
Data filename: Untitled.cck

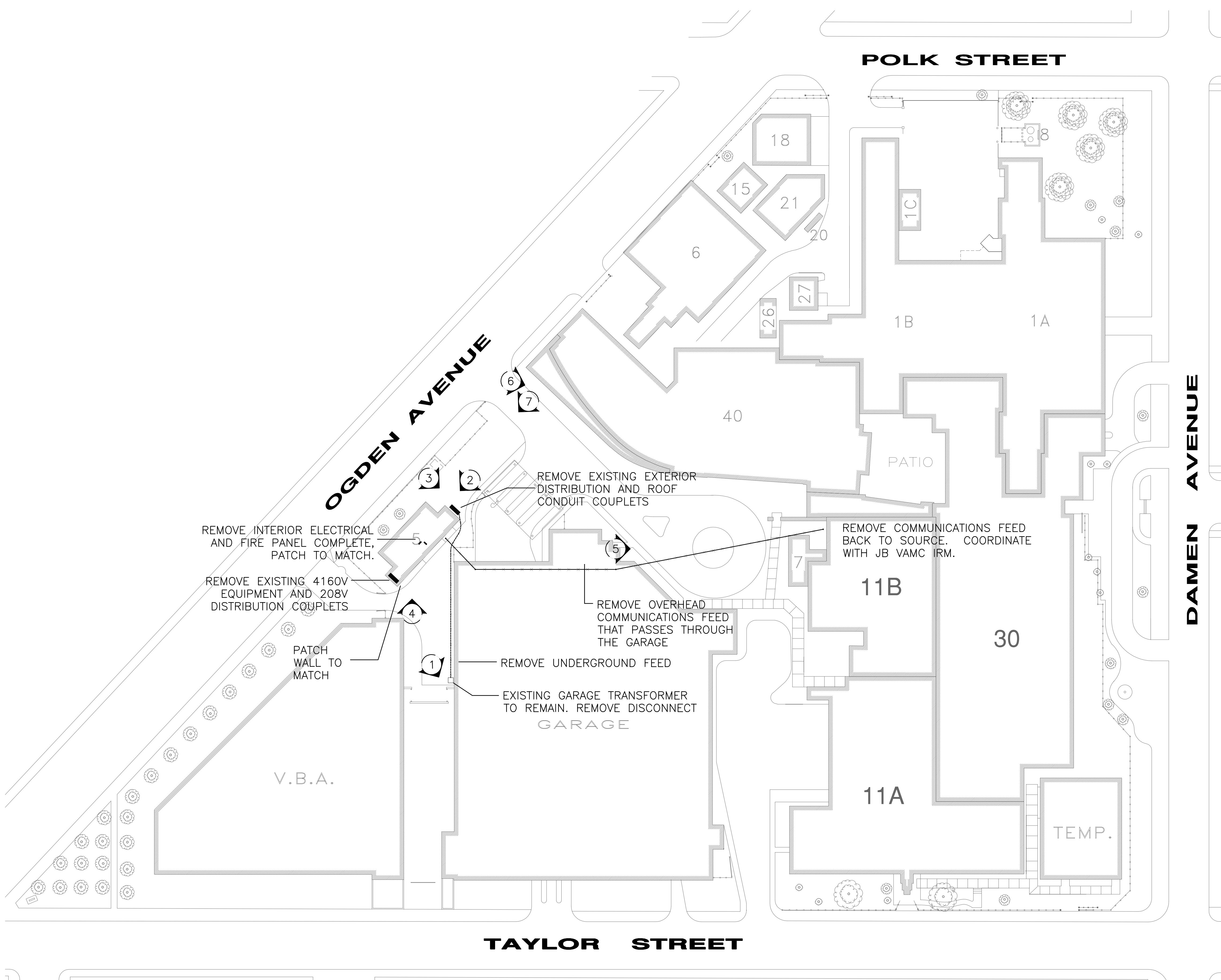
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Page 1 of 1



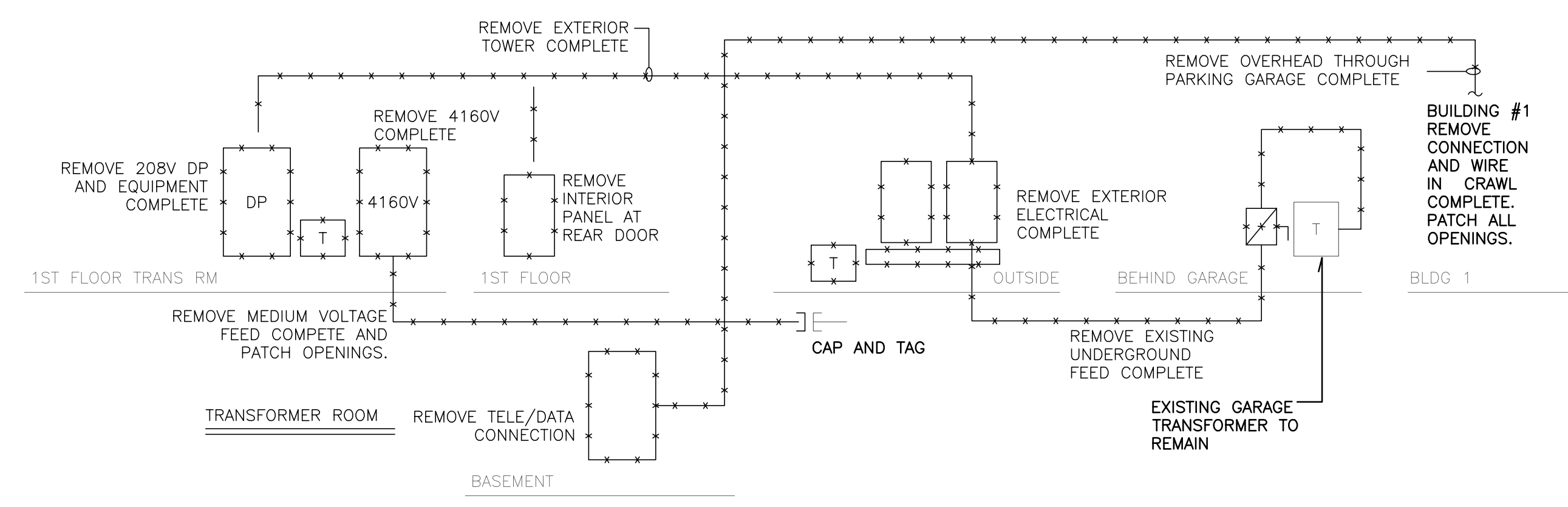
Department of  
Veterans Affairs



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



1 DEMOLITION ELECTRICAL SITE PLAN  
1" = 50'-0"



2 BUILDING #5 DEMO RISER  
SCALE: NONE



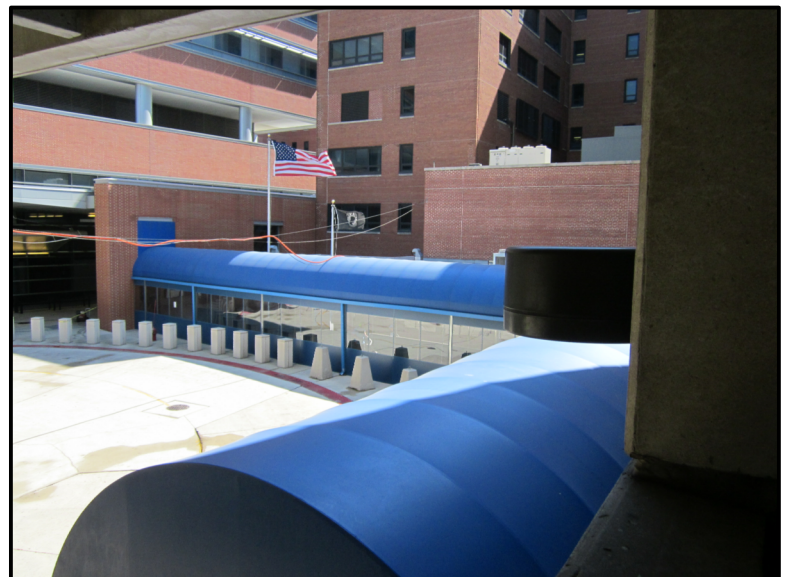
1 EXISTING GARAGE TRANSFORMER. REMOVE DISCONNECT AND SUB-FEED



4 REMOVE EXISTING EXTERIOR CONDUIT AND PATCH EXTERIOR WALL PENETRATIONS



2 REMOVE EXISTING EXTERIOR DISTRIBUTION AND REPAIR LANDSCAPE TO MATCH



5 REMOVE OVERHEAD COMMUNICATIONS CABLING AND PATCH EXTERIOR WALL PENETRATIONS



3 ADDITIONAL VIEW OF THE EXISTING EXTERIOR DISTRIBUTION



6 VIEW LOOKING TOWARD BUILDING 40 NOTICE THE PLANTERS, SIDEWALK, CURB, SIGNS AND ILLUMINATED BOLLARDS



6 VIEW LOOKING TOWARD BUILDING 5 NOTICE THE FLAGPOLES, STREET LIGHTING, SIGNS, FLOWER AREA WITH LIGHTING, CURB, SIDEWALK AND GRASS AREAS

COMPLETION ITEM NO. \_\_\_\_\_  
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		<div>CONSULTANTS:</div>		<div>ARCHITECT/ENGINEERS:</div> <div>TENG</div> <div>TENG &amp; ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE., CHICAGO, IL 60601 TELEPHONE: 312/616-0000</div>	<div>Drawing Title</div> <div>DEMOLITION ELECTRICAL SITE PLAN</div>	<div>Project Title</div> <div>ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC &amp; ADA TOILETS</div>	<div>Project Number</div> <div>537-12-122</div>	<div>Office of Construction and Facilities Management</div>		
					<div>Building Number</div> <div>5</div>					
					<div>Drawing Number</div> <div>5 - ED - 100</div>					
					<div>Dwg2 of 16</div>					
<div>ISSUED FOR SOLICITATION</div>	<div>04/30/2013</div>				<div>Approved: Project Director</div>	<div>Location</div> <div>JESSE BROWN V.A.M.C.</div>	<div>Date</div> <div>FEBRUARY 13, 2013</div>	<div>Checked</div>	<div>Drawn</div> <div>JJC</div>	<div>Department of Veterans Affairs</div>
<div>Revisions:</div>	<div>Date</div>									



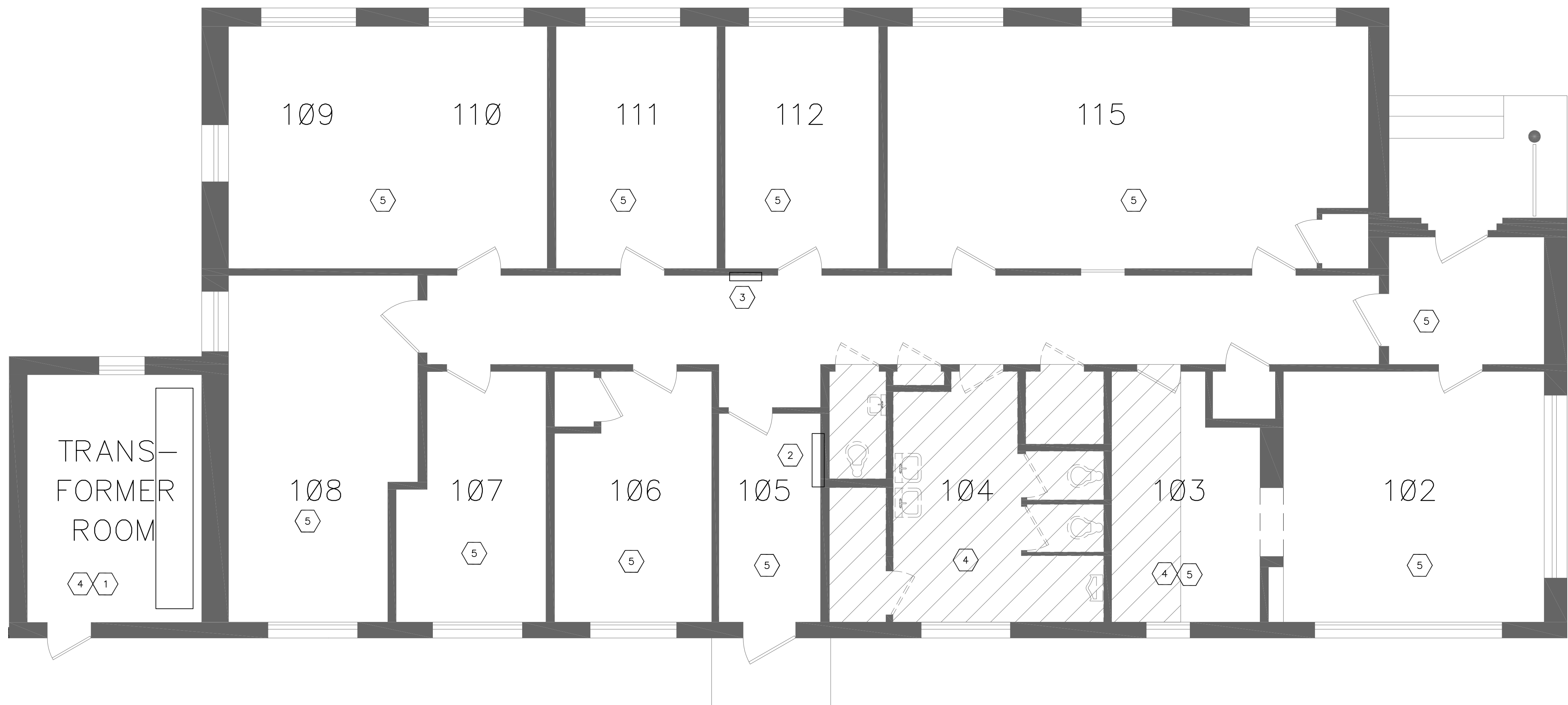
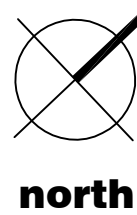


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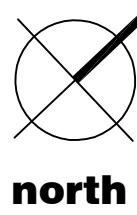


- DEMOLITION NOTES:**
1. REMOVE EXISTING MEDIUM VOLTAGE EQUIPMENT COMPLETE. REMOVE EXISTING PERMANENT AND TEMPORARY POWER FEEDS COMPLETE.
  2. REMOVE POWER PANEL AND PARCH.
  3. REMOVE FIRE ALARM AND ALL DEVICES COMPLETE. REDIRECT ANY CIRCUITS TO REMAIN TO NEW PANEL.
  4. REMOVE ALL POWER, LIGHTING, FEEDERS, PULLBOXES, CONTROLS, VOICE/DATA, TERMINATIONS, ABANDONED WIRE OR CONDUIT, ETC.
  5. MAINTAIN SERVICES IN ALL AREAS THAT ARE TO REMAIN.

**1 BASEMENT LEVEL DEMO PLAN**  
1/4"=1'-0"



**2 FIRST FLOOR LEVEL DEMO PLAN**  
1/4"=1'-0"



COMPLETION ITEM NO. \_\_\_\_\_  
NOT SPRINKLERED

<div>ISSUED FOR SOLICITATION Date: 04/30/2013</div>		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title <b>DEMOLITION ELECTRICAL FLOOR PLAN</b>		Project Title ELECTRICAL SERVICE RELOCATION FOR BLDG #5 CO "A" HVAC & ADA TOILETS		Project Number 537-12-122 Building Number 5		Office of Construction and Facilities Management  Department of Veterans Affairs	
<div>Revisions</div>						Approved: Project Director		Location JESSE BROWN V.A.M.C.		Drawing Number <b>5-EDP-101</b> DwgXX of 16			
								Date FEBRUARY 13, 2013		Checked MLC			



